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www.aaeon.com

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Selection Guide

2012 Vol. 1

Selection Guide

About Us

AAEON Technology, established in 1992, manufactures and markets a wide range of Industrial PCs all over the world. AAEON's commitment to its customers is to provide reliable and high quality Embedded SBCs - 5.25" CPU Boards, 3.5" CPU Boards, EPIC Boards, RISC Boards, Computer On Modules, PC/104 Modules, PC/104 Peripheral Modules, PICMG 1.3 SBCs, PICMG 1.0 SBCs and System Products including Operator Panels, Robust Panel PCs, Medical PCs, Embedded Chassis EmBOX, Industrial Chassis, Industrial Servers, Firewall products and related accessories.

AAEON has well established, strategically positioned branch offices across America, Germany, the Netherlands, China and Singapore. Our Global Distribution Channel includes the world's top Distributors, making our products available to our customers through their established business relationships. Through these channels, AAEON is able to provide prompt, direct service and solutions to its worldwide customers. By maintaining ISO-9001 and ISO-14001 certifications since 1994 and 1996 respectively, AAEON ensures its commitment to delivering products of the highest quality.

Becoming a publicly traded company in 2001, AAEON has demonstrated the sound fiscal policies required for good investment opportunities. AAEON continues to earn numerous citations for its remarkable industry contributions, including six years of Symbol of Excellence Awards and the country's Eighth Annual Outstanding Business Award. AAEON introduced TL9000 Certification in 2003 and ISO 13485 in 2007 to further expand its commitment to quality.

AAEON is a firm believer in energy-savings and in environmentally conscious manufacturing. Many of AAEON's products are Energy Star certified and AAEON continues to incorporate more green products into its product portfolio.

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Company Founded: 1992

Capital: $32 million USD

President: Yung-Shun, Chuang

CEO: Steve Hsu

Employees: 400 (Taiwan)/ 143 (Overseas)

AAEON Core Values

Reliability: Delivering trustworthy products to its customers

Integrity: Providing a Values-based business relationship focusing on the success of your product

Innovation: Turning cutting-edge concepts into reality

Global Patents and Awards

Taiwan

Germany

U.S.A.

Japan

China

TAIWAN EXCELLENCE 2012

COMPUTEX TAIPEI 2011 BEST CHOICE

Note: All specifications are subject to change without notice.

Selection Guide

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COM-945GSEW1 30
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AQ7-LN 64

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Qseven Carrier Board

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AHP-2176 85
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Infotainment Multi-Touch Panel Solutions

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Multi-Purpose and Water-Proof Panel Solutions

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AGD-317D 91
AGD-315D 91
AGD-312D 92
AGD-310D 92
ACD-521D 93
ACD-518D 93
ACD-515D 93
FOX-15D 94
FOX-12D 94
FOX-81D 94

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AGD-317R 95
AGD-315R 95
AGD-312R 95
ACD-521R 96
ACD-518R 96
ACD-515R 96
FOX-15R 97
FOX-12R 97
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Note: All specifications are subject to change without notice.

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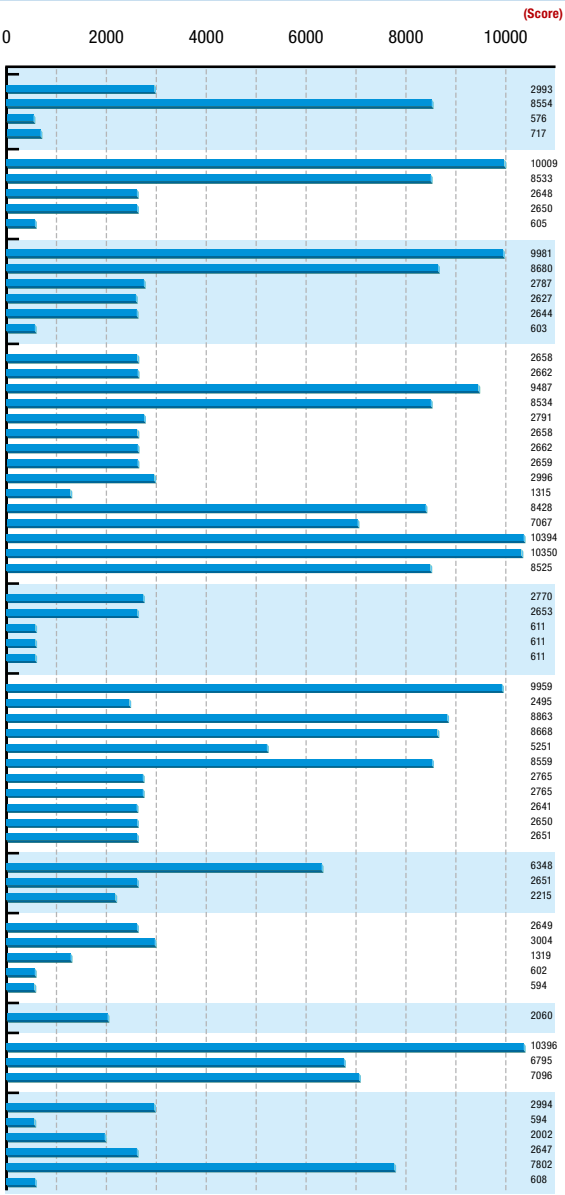
Performance Benchmark

Boards

CPU Performance

Test Utility: PC Mark 2002



Compact Boards		
PCM-LN02	Intel® Atom™ D525 1.8GHz	2993
PCM-9452	PCM-9452 A0.2, Intel® Core™ 2 Duo T7400 2.16GHz	8554
PCM-5895A	Onboard AMD Geode™ LX800 500MHz	576
PCM-5895A	Onboard AMD Geode-LX900 599MHz	717
EPIC		
EPIC-QM57	Intel® Core™ i7 CPU M620 @ 2.67GHz	10009
EPIC-9456	EPIC-9456 A0.1, Intel® Core™ 2 Duo T7400 2.16GHz	8533
EPIC-9457	Onboard Intel® Atom™ N270 1.6GHz	2648
EPIC-9457 Rev. B	Onboard Intel® Atom™ N270 1.6GHz	2650
EPIC-5536	EPIC-5536 A0.2, Geode™ LX800	605
Subcompact Boards		
GENE-QM57	Intel® Core™ i7-620M Processor	9981
GENE-9655	Intel® Core™ 2 Duo T7500 2.20GHz	8680
GENE-LN05	Intel® Atom™ D510 1.66GHz 667MHz	2787
GENE-9455	Onboard Intel® Atom™ N270 1.6GHz	2627
GENE-9315	Onboard Intel® Atom™ N270 1.6GHz	2644
GENE-5315/GENE-5315B	GENE-5315-A10, AMD Geode™ LX800	603
Embedded Motherboards		
EMB-9459T Rev. A	Onboard Intel® Atom™ N270 1.6GHz	2658
EMB-9459T Rev. B	Onboard Intel® Atom™ N270 1.6GHz	2662
EMB-9658T	Intel® Mobile Core™ 2 Duo T7500 2.2GHz	9487
EMB-945T Rev. A	EMB-945T-A10, Intel® Core™ 2 Duo T7400 2.16GHz	8534
EMB-LN9T	Intel® Luna Pier D510 1.66GHz	2791
EMB-9459T Rev. A	Onboard Intel® Atom™ N270 1.6GHz	2658
EMB-9459T Rev. B	Onboard Intel® Atom™ N270 1.6GHz	2662
EMB-9459T-A20	Onboard Intel® Atom™ N270 1.6GHz	2659
EMB-LN8T	Onboard Intel® Atom™ N455/D525 Processor	2996
IMBM-700	Onboard VIA C7 Processor 1000MHz FSB 400MHz	1315
IMBM-935	Intel® Core™ 2 Duo E4300 1.80GHz FSB: 800MHz	8428
IMBA-910	Intel® Pentium® D 3.2GHz / L2: 2MB / FSB: 800MHz (840 Sequence) LGA775 Socket CPU	7067
IMBI-Q45	Intel® Core™ 2 Quad Q9400 @2.66GHz/ FSB 1333MHz	10394
IMBI-Q57	Intel® Core™ i7 CPU K875 @2.93GHz / 45nm	10350
IMBI-QM57	Intel® Core™ i5 2GHz	8525
PC/104 CPU Modules		
PFM-LNP	Intel® Atom™ N450 1.66GHz	2770
PFM-945C	Onboard Intel® Atom™ N270 1.6GHz	2653
PFM-541I	Onboard AMD Geode™ LX800 500MHz	611
PFM-540I Rev. A	PFM-540I, AMD Geode™ LX800	611
PFM-540I Rev. B	AMD Geode™ LX 800 500MHz, DDR 1GB	611
COM Express CPU Modules		
CCOM-45SP	T9400 2.53 GHz, DDR3 1066 2GB, w/ECB-916M A1.0	9959
NanoCOM-LN	N455 1.66GHz, on board DDR3 1G, w/ECB-916M A2.1	2495
COM-45GS	DDR3 1066 4GB, w/ECB-916M A1.0	8863
COM-965	T7500 2.2GHz, DDR2 667 1GB, w/ECB-916M	8668
COM-690T	Turion 64x2 1.6GHz, DDR2 667 2GB, w/ECB-916M A1.0	5251
COM-945 A2.0	T7400 2.16GHz, DDR2 667 2GB, w/ECB-916M A1.0	8559
COM-LN	D525 1.66G, DDR2 1066 1GB, w/ECB-916M A2.1	2765
COM-LN Rev A	D510 1.66G, DDR2 667 2GB, w/ECB-916M A2.1	2765
COM-945GSE	N270 1.6G, DDR2 533 1GB, w/ECB-916M A1.0	2641
COM-U15	Z530 1.6GHz, DDR2 667 2GB, w/ECB-951D A1.0	2650
NanoCOM-U15	Z530 1.6GHz, on board DDR2 533 512MB, w/ECB-951D A1.0	2651
XTX CPU Module		
XTX-945	XTX-945 A0.3, Celeron® M 1.86GHz	6348
XTX-945GSE A1.1	Onboard Intel® Atom™ N270 1.6GHz	2651
XTX-U15B	Onboard Intel® Atom™ Z520 1.33GHz	2215
ETX CPU Modules		
ETX-945GSE	Onboard Intel® Atom™ N270 1.6GHz	2649
ETX-LN	Intel® Atom™ D525 (1M Cache, 1.80 GHz)	3004
ETX-CX700M	VIA Eden™ 1.6GHz	1319
ETX-701	Onboard AMD Geode™ LX800 500MHz	602
ETX-700 Rev. B	AMD Geode™ LX800	594
QSeven CPU Module		
AQ7-LN	Onboard Intel® Atom™ N450 @ 1.66GHz	2060
Full-Size SBCs		
FSB-641H	Intel® Core™ 2 Quad Q9400 @ 2.66GHz/ FSB 1330MHz	10396
FSB-945G	Intel® Pentium® 4/ 3.20GHz/ 1M/ 800/ SL7KL	6795
FSB-868G	Intel® Core™ 2 Duo E6600 2.66GHz/ E4300 1.8GHz	7096
Half-Size SBCs		
HSB-525I	Onboard Intel® Atom™ Dual Core™ D525 at 1.80 GHz Processor with a 1MB L2 Cache	2994
HSB-800P	AMD Geode™ LX800 500MHz	594
HSB-910I	Intel® Celeron® M Banias Processor 600MHz	2002
HSB-945P	Intel® Atom™ CPU N270@1.60GHz	2647
HSB-965P	Mobile Intel® Celeron® on 550, 2000MHz (15x133)	7802
HSB-800I	AMD Geode™ LX800 500 MHz	608

Note: Higher number represents better CPU performance.

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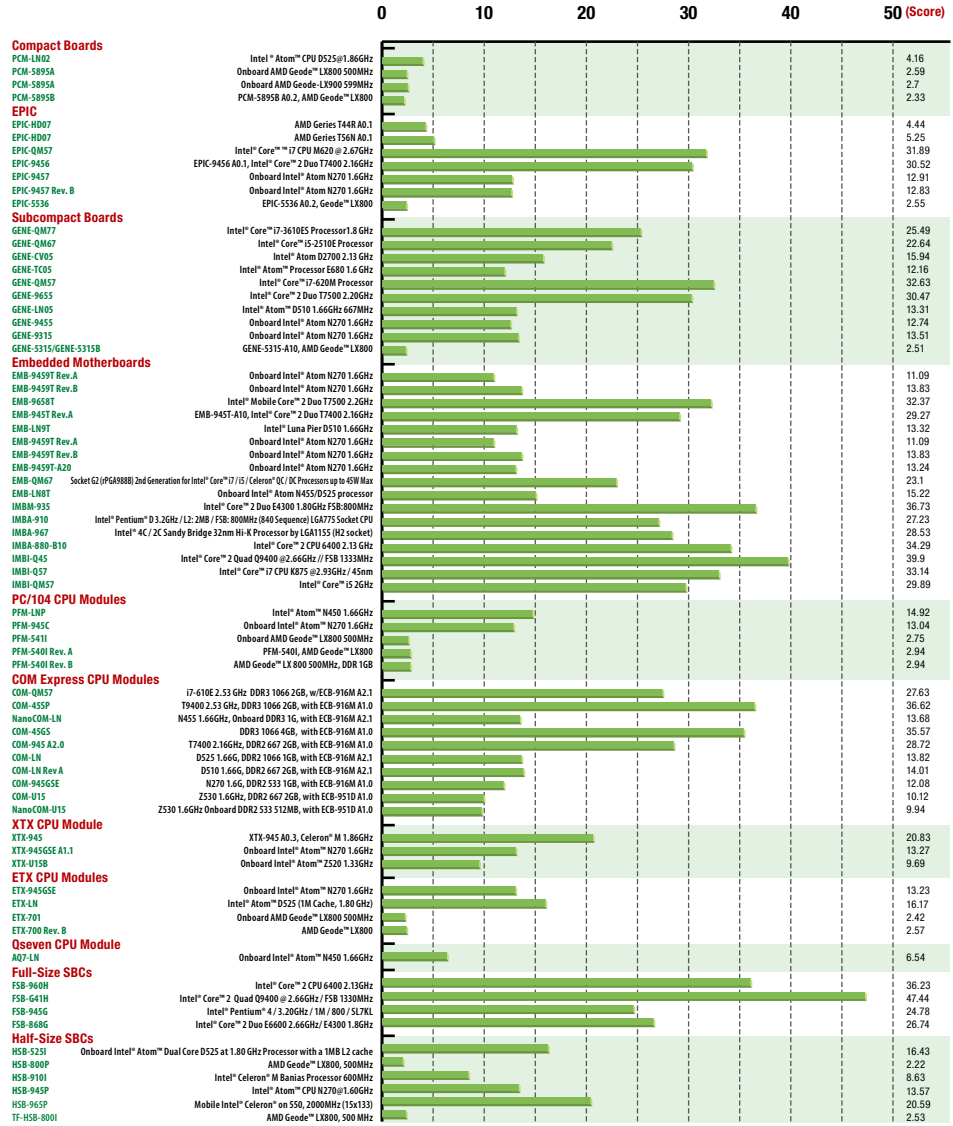
Note: All specifications are subject to change without notice.

Performance Benchmark

Boards

Graphics Performance

Test Utility: Final Reality V1.01


0
10
20
30
40
50 (Score)
Compact Boards
PCM-LN02 Intel ® Atom™ CPU D525@1.86GHz 4.16
PCM-5895A Onboard AMD Geode™ LX800 500MHz 2.59
PCM-5895A Onboard AMD Geode-LX900 599MHz 2.7
PCM-5895B PCM-5895B A0.2, AMD Geode™ LX800 2.33
EPIC
EPIC-HD07 AMD Geries T44R A0.1 4.44
EPIC-HD07 AMD Geries T56N A0.1 5.25
EPIC-QM57 Intel® Core™ ™ i7 CPU M620 @ 2.67GHz 31.89
EPIC-9456 EPIC-9456 A0.1, Intel® Core™ 2 Duo T7400 2.16GHz 30.52
EPIC-9457 Onboard Intel® Atom N270 1.6GHz 12.91
EPIC-9457 Rev. B Onboard Intel® Atom N270 1.6GHz 12.83
EPIC-5536 EPIC-5536 A0.2, Geode™ LX800 2.55
Subcompact Boards
GENE-QM77 Intel® Core™ i7-3610ES Processor1.8 GHz 25.49
GENE-QM67 Intel® Core™ i5-2510E Processor 22.64
GENE-CV05 Intel® Atom D2700 2.13 GHz 15.94
GENE-TC05 Intel® Atom™ Processor E680 1.6 GHz 12.16
GENE-QM57 Intel® Core™ i7-620M Processor 32.63
GENE-9655 Intel® Core™ 2 Duo T7500 2.20GHz 30.47
GENE-LN05 Intel® Atom™ D510 1.66GHz 667MHz 13.31
GENE-9455 Onboard Intel® Atom N270 1.6GHz 12.74
GENE-9315 Onboard Intel® Atom N270 1.6GHz 13.51
GENE-5315/GENE-5315B GENE-5315-A10, AMD Geode™ LX800 2.51
Embedded Motherboards
EMB-9459T Rev.A Onboard Intel® Atom N270 1.6GHz 11.09
EMB-9459T Rev.B Onboard Intel® Atom N270 1.6GHz 13.83
EMB-9658T Intel® Mobile Core™ 2 Duo T7500 2.2GHz 32.37
EMB-945T Rev.A EMB-945T-A10, Intel® Core™ 2 Duo T7400 2.16GHz 29.27
EMB-LN9T Intel® Luna Pier D510 1.66GHz 13.32
EMB-9459T Rev.A Onboard Intel® Atom N270 1.6GHz 11.09
EMB-9459T Rev.B Onboard Intel® Atom N270 1.6GHz 13.83
EMB-9459T-A20 Onboard Intel® Atom N270 1.6GHz 13.24
EMB-QM67 Socket G2 (rPGA988B) 2nd Generation for Intel® Core™ i7 / i5 / Celeron® QC / DC Processors up to 45W Max 23.1
EMB-LN8T Onboard Intel® Atom N455/D525 processor 15.22
IMBM-935 Intel® Core™ 2 Duo E4300 1.80GHz FSB:800MHz 36.73
IMBA-910 Intel® Pentium® D 3.2GHz / L2: 2MB / FSB: 800MHz (840 Sequence) LGA775 Socket CPU 27.23
IMBA-967 Intel® 4C / 2C Sandy Bridge 32nm Hi-K Processor by LGA1155 (H2 socket) 28.53
IMBA-880-B10 Intel® Core™ 2 CPU 6400 2.13 GHz 34.29
IMBI-Q45 Intel® Core™ 2 Quad Q9400 @2.66GHz / FSB 1333MHz 39.9
IMBI-Q57 Intel® Core™ i7 CPU K875 @2.93GHz / 45nm 33.14
IMBI-QM57 Intel® Core™ i5 2GHz 29.89
PC/104 CPU Modules
PFM-LNP Intel® Atom™ N450 1.66GHz 14.92
PFM-945C Onboard Intel® Atom™ N270 1.6GHz 13.04
PFM-541I Onboard AMD Geode™ LX800 500MHz 2.75
PFM-540I Rev. A PFM-540I, AMD Geode™ LX800 2.94
PFM-540I Rev. B AMD Geode™ LX 800 500MHz, DDR 1GB 2.94
COM Express CPU Modules
COM-QM57 i7-610E 2.53 GHz DDR3 1066 2GB, w/ECB-916M A2.1 27.63
COM-45SP T9400 2.53 GHz, DDR3 1066 2GB, with ECB-916M A1.0 36.62
NanoCOM-LN N455 1.66GHz, Onboard DDR3 1G, with ECB-916M A2.1 13.68
COM-45GS DDR3 1066 4GB, with ECB-916M A1.0 35.57
COM-945 A2.0 T7400 2.16GHz, DDR2 667 2GB, with ECB-916M A1.0 28.72
COM-LN D525 1.66G, DDR2 1066 1GB, with ECB-916M A2.1 13.82
COM-LN Rev A D510 1.66G, DDR2 667 2GB, with ECB-916M A2.1 14.01
COM-945GSE N270 1.6G, DDR2 533 1GB, with ECB-916M A1.0 12.08
COM-U15 Z530 1.6GHz, DDR2 667 2GB, with ECB-951D A1.0 10.12
NanoCOM-U15 Z530 1.6GHz Onboard DDR2 533 512MB, with ECB-951D A1.0 9.94
XTX CPU Module
XTX-945 XTX-945 A0.3, Celeron® M 1.86GHz 20.83
XTX-945GSE A1.1 Onboard Intel® Atom™ N270 1.6GHz 13.27
XTX-U15B Onboard Intel® Atom™ Z520 1.33GHz 9.69
ETX CPU Modules
ETX-945GSE Onboard Intel® Atom™ N270 1.6GHz 13.23
ETX-LN Intel® Atom™ D525 (1M Cache, 1.80 GHz) 16.17
ETX-701 Onboard AMD Geode™ LX800 500MHz 2.42
ETX-700 Rev. B AMD Geode™ LX800 2.57
Qseven CPU Module
AQ7-LN Onboard Intel® Atom™ N450 1.66GHz 6.54
Full-Size SBCs
FSB-960H Intel® Core™ 2 CPU 6400 2.13GHz 36.23
FSB-G41H Intel® Core™ 2 Quad Q9400 @ 2.66GHz / FSB 1330MHz 47.44
FSB-945G Intel® Pentium® 4 / 3.20GHz / 1M / 800 / SL7KL 24.78
FSB-868G Intel® Core™ 2 Duo E6600 2.66GHz/ E4300 1.8GHz 26.74
Half-Size SBCs
HSB-525I Onboard Intel® Atom™ Dual Core D525 at 1.80 GHz Processor with a 1MB L2 cache 16.43
HSB-800P AMD Geode™ LX800, 500MHz 2.22
HSB-910I Intel® Celeron® M Banias Processor 600MHz 8.63
HSB-945P Intel® Atom™ CPU N270@1.60GHz 13.57
HSB-965P Mobile Intel® Celeron® on 550, 2000MHz (15x133) 20.59
TF-HSB-800I AMD Geode™ LX800, 500 MHz 2.53

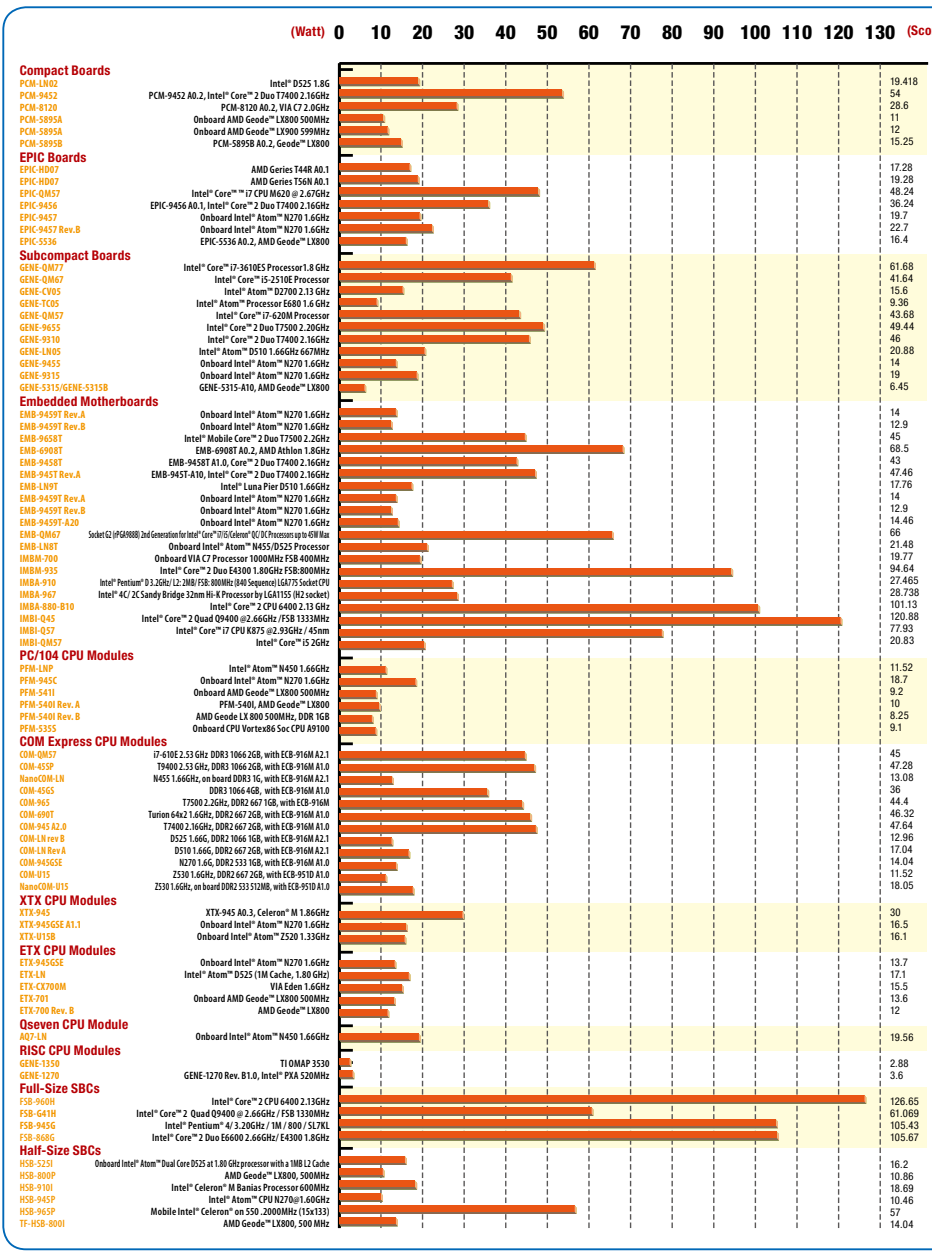
Note: Higher number represents better graphics performance.

Performance Benchmark

Boards

Power Consumption

Test Utility: Prime 95



Compact Boards		
PCM-LN02	Intel® D525 1.8G	19.418
PCM-9452	PCM-9452 A0.2, Intel® Core™ 2 Duo T7400 2.16GHz	54
PCM-8120	PCM-8120 A0.2, VIA C7 2.0GHz	28.6
PCM-5895A	Onboard AMD Geode™ LX800 500MHz	11
PCM-5895A	Onboard AMD Geode™ LX900 599MHz	12
PCM-5895B	PCM-5895B A0.2, Geode™ LX800	15.25
EPIC Boards		
EPIC-HD07	AMD Geries T44R A0.1	17.28
EPIC-HD07	AMD Geries T56N A0.1	19.28
EPIC-QM57	Intel® Core™ ™ i7 CPU M620 @ 2.67GHz	48.24
EPIC-9456	EPIC-9456 A0.1, Intel® Core™ 2 Duo T7400 2.16GHz	36.24
EPIC-9457	Onboard Intel® Atom™ N270 1.6GHz	19.7
EPIC-9457 Rev.B	Onboard Intel® Atom™ N270 1.6GHz	22.7
EPIC-5536	EPIC-5536 A0.2, AMD Geode™ LX800	16.4
Subcompact Boards		
GENE-QM77	Intel® Core™ i7-3610ES Processor1.8 GHz	61.68
GENE-QM67	Intel® Core™ i5-2510E Processor	41.64
GENE-CV05	Intel® Atom™ D2700 2.13 GHz	15.6
GENE-TC05	Intel® Atom™ Processor E680 1.6 GHz	9.36
GENE-QM57	Intel® Core™ i7-620M Processor	43.68
GENE-9655	Intel® Core™ 2 Duo T7500 2.20GHz	49.44
GENE-9310	Intel® Core™ 2 Duo T7400 2.16GHz	46
GENE-LN0S	Intel® Atom™ D510 1.66GHz 667MHz	20.88
GENE-9455	Onboard Intel® Atom™ N270 1.6GHz	14
GENE-9315	Onboard Intel® Atom™ N270 1.6GHz	19
GENE-5315/GENE-5315B	GENE-5315-A10, AMD Geode™ LX800	6.45
Embedded Motherboards		
EMB-9459T Rev.A	Onboard Intel® Atom™ N270 1.6GHz	14
EMB-9459T Rev.B	Onboard Intel® Atom™ N270 1.6GHz	12.9
EMB-9658T	Intel® Mobile Core™ 2 Duo T7500 2.2GHz	45
EMB-6908T	EMB-6908T A0.2, AMD Athlon 1.8GHz	68.5
EMB-9458T	EMB-9458T A1.0, Core™ 2 Duo T7400 2.16GHz	43
EMB-945T Rev.A	EMB-945T-A10, Intel® Core™ 2 Duo T7400 2.16GHz	47.46
EMB-LN9T	Intel® Luna Pier D510 1.66GHz	17.76
EMB-9459T Rev.A	Onboard Intel® Atom™ N270 1.6GHz	14
EMB-9459T Rev.B	Onboard Intel® Atom™ N270 1.6GHz	12.9
EMB-9459T-A20	Onboard Intel® Atom™ N270 1.6GHz	14.46
EMB-QM67	Socket G2 (rPGA988B) 2nd Generation for Intel® Core™ i7/i5/Celeron® QC/DC Processors up to 45W Max	66
EMB-LN8T	Onboard Intel® Atom™ N455/D525 Processor	21.48
IMBM-700	Onboard VIA C7 Processor 1000MHz FSB 400MHz	19.77
IMBM-935	Intel® Core™ 2 Duo E4300 1.80GHz FSB:800MHz	94.64
IMBA-910	Intel® Pentium® D 3.2GHz/ L2: 2MB/ FSB: 800MHz (840 Sequence) LGA775 socket CPU	27.465
IMBA-967	Intel® 4C/ 2C Sandy Bridge 32nm Hi- K Processor by LGA1155 (H2 socket)	28.738
IMBA-880-B10	Intel® Core™ 2 CPU Q400 2.33 GHz	101.13
IMBI-Q45	Intel® Core™ 2 Quad Q9400 @2.66GHz /FSB 1333MHz	120.88
IMBI-Q57	Intel® Core™ i7 CPU K875 @2.93GHz / 45nm	77.93
IMBI-QM57	Intel® Core™ i5 2GHz	20.83
PC/104 CPU Modules		
PFM-LNP	Intel® Atom™ N450 1.66GHz	11.52
PFM-945C	Onboard Intel® Atom™ N270 1.6GHz	18.7
PFM-541I	Onboard AMD Geode™ LX800 500MHz	9.2
PFM-540I Rev.A	PFM-540I, AMD Geode™ LX800	10
PFM-540I Rev.B	AMD Geode LX 800 500MHz, DDR 1GB	8.25
PFM-535S	Onboard CPU Vortex86 Soc CPU A9100	9.1
COM Express CPU Modules		
COM-QM57	i7-610E 2.53 GHz DDR3 1066 2GB, with ECB-916M A2.1	45
COM-45SP	T9400 2.53 GHz, DDR3 1066 2GB, with ECB-916M A1.0	47.28
NanoCOM-LN	N455 1.66GHz, on board DDR3 1G, with ECB-916M A2.1	13.08
COM-45GS	DDR3 1066 4GB, with ECB-916M A1.0	36
COM-965	T2500 2.2GHz, DDR2 667 1GB, with ECB-916M	44.4
COM-690T	Turion 64x2 1.6GHz, DDR2 667 2GB, with ECB-916M A1.0	46.32
COM-945 A2.0	T7400 2.16GHz, DDR2 667 2GB, with ECB-916M A1.0	47.64
COM-LN rev B	D525 1.66G, DDR2 1066 1GB, with ECB-916M A2.1	12.96
COM-LN Rev A	D510 1.66G, DDR2 667 2GB, with ECB-916M A2.1	17.04
COM-945GSE	N270 1.6G, DDR2 533 1GB, with ECB-916M A1.0	14.04
COM-U15	Z530 1.6GHz, DDR2 667 2GB, with ECB-951D A1.0	11.52
NanoCOM-U15	Z530 1.6GHz, on board DDR2 533 512MB, with ECB-951D A1.0	18.05
XTX CPU Modules		
XTX-945	XTX-945 A0.3, Celeron® M 1.86GHz	30
XTX-945GSE A1.1	Onboard Intel® Atom™ N270 1.6GHz	16.5
XTX-U15B	Onboard Intel® Atom™ Z520 1.33GHz	16.1
ETX CPU Modules		
ETX-945GSE	Onboard Intel® Atom™ N270 1.6GHz	13.7
ETX-LN	Intel® Atom™ D525 (1M Cache, 1.80 GHz)	17.1
ETX-CX700M	VIA Eden 1.6GHz	15.5
ETX-701	Onboard AMD Geode™ LX800 500MHz	13.6
ETX-700 Rev. B	AMD Geode™ LX800	12
Qseven CPU Module		
AQ7-LN	Onboard Intel® Atom™ N450 1.66GHz	19.56
RISC CPU Modules		
GENE-1350	TI OMAP 3530	2.88
GENE-1270	GENE-1270 Rev. B1.0, Intel® PXA 520MHz	3.6
Full-Size SBCs		
FSB-960H	Intel® Core™ 2 CPU Q400 2.13GHz	126.65
FSB-G41H	Intel® Core™ 2 Quad Q9400 @ 2.66GHz / FSB 1330MHz	61.069
FSB-945G	Intel® Pentium® 4/ 3.20GHz / 1M / 800 / SL7KL	105.43
FSB-868G	Intel® Core™ 2 Duo E6600 2.66GHz/ E4300 1.8GHz	105.67
Half-Size SBCs		
HSB-525I	Onboard Intel® Atom™ Dual Core D525 at 1.80 GHz processor with a 1MB L2 Cache	16.2
HSB-800P	AMD Geode™ LX800, 500MHz	10.86
HSB-910I	Intel® Celeron® M Banias Processor 600MHz	18.69
HSB-945P	Intel® Atom™ CPU N270@1.60GHz	10.46
HSB-965P	Mobile Intel® Celeron® on 550 .2000MHz (15x133)	57
TF-HSB-800I	AMD Geode™ LX800, 500 MHz	14.04

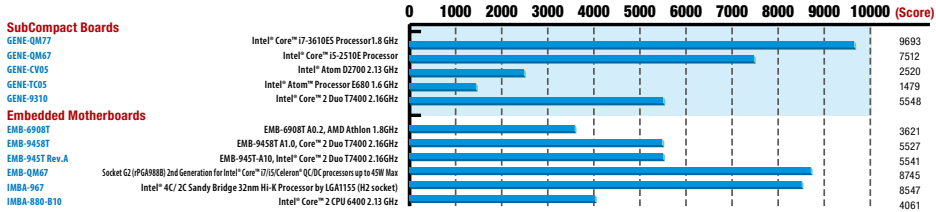
Note: All specifications are subject to change without notice.

Performance Benchmark

Boards

CPU Performance

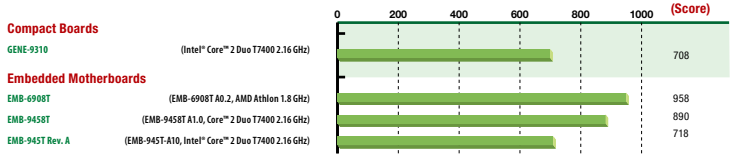
Test Utility: PC Mark 2005


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 (Score)
SubCompact Boards
GENE-QM77 Intel® Core™ i7-3610ES Processor1.8 GHz 9693
GENE-QM67 Intel® Core™ i5-2510E Processor 7512
GENE-CV05 Intel® Atom D2700 2.13 GHz 2520
GENE-TC05 Intel® Atom™ Processor E680 1.6 GHz 1479
GENE-9310 Intel® Core™ 2 Duo T7400 2.16GHz 5548
Embedded Motherboards
EMB-6908T EMB-6908T A0.2, AMD Athlon 1.8GHz 3621
EMB-9458T EMB-9458T A1.0, Core™ 2 Duo T7400 2.16GHz 5527
EMB-945T Rev.A EMB-945T-A10, Intel® Core™ 2 Duo T7400 2.16GHz 5541
EMB-QM67 Socket G2 (rPGA988B) 2nd Generation for Intel® Core™ i7/i5/Celeron® QC/DC processors up to 45W Max 8745
IMBA-967 Intel® 4C / 2C Sandy Bridge 32nm Hi-K Processor by LGA1155 (H2 socket) 8547
IMBA-880-B10 Intel® Core™ 2 CPU 6400 2.13 GHz 4061

Note: Higher number represents better CPU performance

Graphics Performance

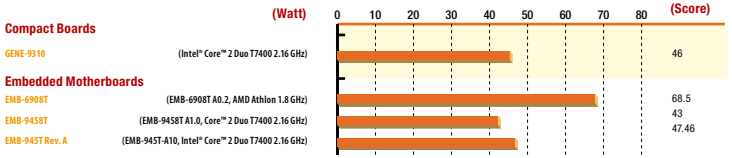
Test Utility: PC Mark 2005


0 200 400 600 800 1000 (Score)
Compact Boards
GENE-9310 (Intel® Core™ 2 Duo T7400 2.16 GHz) 708
Embedded Motherboards
EMB-6908T (EMB-6908T A0.2, AMD Athlon 1.8 GHz) 958
EMB-9458T (EMB-9458T A1.0, Core™ 2 Duo T7400 2.16 GHz) 890
EMB-945T Rev. A (EMB-945T-A10, Intel® Core™ 2 Duo T7400 2.16 GHz) 718

Note: Higher number represents better CPU performance

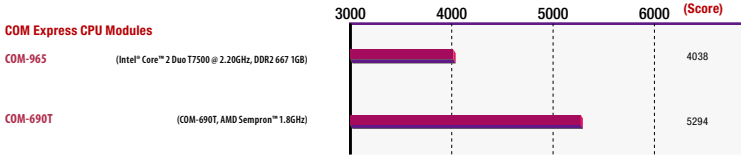
Power Consumption

Test Utility: PC Mark 2005


(Watt)
0 10 20 30 40 50 60 70 80 (Score)
Compact Boards
GENE-9310 (Intel® Core™ 2 Duo T7400 2.16 GHz) 46
Embedded Motherboards
EMB-6908T (EMB-6908T A0.2, AMD Athlon 1.8 GHz) 68.5
EMB-9458T (EMB-9458T A1.0, Core™ 2 Duo T7400 2.16 GHz) 43
EMB-945T Rev. A (EMB-945T-A10, Intel® Core™ 2 Duo T7400 2.16 GHz) 47.46

3D Mark 2005

Test Utility: PC Mark 2005


3000 4000 5000 6000 (Score)
COM Express CPU Modules
COM-965 (Intel® Core™ 2 Duo T7500 @ 2.20GHz, DDR2 667 1GB) 4038
COM-690T (COM-690T, AMD Sempron™ 1.8GHz) 5294

AAEON's Embedded Mobile CPU Support Matrix

Intel® Embedded CPU Support Matrix

CPU Frequency	Graphics Frequency	MFG Tech (nm)	Code	Socket Pin-out	Package	FSB (MHz)	L2/L3 Cache	Voltage Type	TDP	Tc/Tj (°C)	Intel® P/N	GENE-QM67, GENE-QM77	COM-QM77 Rev. A	COM-QM77 Rev. B	COM-QM57	GENE-QM57, EPIC-QM57	COM-45GS	COM-45SP	GENE-9655	PCM-9452, EPIC-9456, GENE-9310	PFM-CVS
Intel® Atom™																					
1.60 GHz	—	45	Z530	SFF 13 x 14 mm	µFC-BGA	533	512 KB	—	2.2 W	0-90	AC80566UE025DW	—	—	—	—	—	—	—	—	—	—
1.1 GHz	—	45	Z510	SFF 13 x 14 mm	µFC-BGA	400	512 KB	—	2.0 W	0-90	AC80566UC005DE	—	—	—	—	—	—	—	—	—	—
1.60 GHz	—	45	Z530P	XL 22 x 22 mm	BGA	533	512 KB	—	2.2 W	0-90	CH80566EE025DW	—	—	—	—	—	—	—	—	—	—
1.1 GHz	—	45	Z510P	XL 22 x 22 mm	BGA	400	512 KB	—	2.0 W	0-90	CH80566EC005DW	—	—	—	—	—	—	—	—	—	—
1.33 GHz	—	45	Z520PT	XL 22 x 22 mm	BGA	533	512 KB	—	2.2 W	-40~110	CH80566EE014DT	—	—	—	—	—	—	—	—	—	—
1.1 GHz	—	45	Z510PT	XL 22 x 22 mm	BGA	400	512 KB	—	2.0 W	-40~110	CH80566EC005DT	—	—	—	—	—	—	—	—	—	—
1.6 GHz	—	45	E680	22 x 22 mm	BGA	—	512 KB	—	4.5W	0-90	—	—	—	—	—	—	—	—	—	—	—
1.3 GHz	—	45	E660	22 x 22 mm	BGA	—	512 KB	—	3.6W	0-90	CT80618003201AA	—	—	—	—	—	—	—	—	—	—
1.0 GHz	—	45	E640	22 x 22 mm	BGA	—	512 KB	—	3.6W	0-90	CT80618005841AA	—	—	—	—	—	—	—	—	—	—
0.6 GHz	—	45	E620	22 x 22 mm	BGA	—	512 KB	—	3.3W	0-90	CT80618005844AA	—	—	—	—	—	—	—	—	—	—
1.6 GHz	—	45	E680T	22 x 22 mm	BGA	—	512 KB	—	4.5W	-40~110	—	—	—	—	—	—	—	—	—	—	—
1.3 GHz	—	45	E660T	22 x 22 mm	BGA	—	512 KB	—	3.6W	-40~110	CT80618003201AB	—	—	—	—	—	—	—	—	—	—
1.0 GHz	—	45	E640T	22 x 22 mm	BGA	—	512 KB	—	3.6W	-40~110	CT80618005841AB	—	—	—	—	—	—	—	—	—	—
0.6 GHz	—	45	E620T	22 x 22 mm	BGA	—	512 KB	—	3.3W	-40~110	CT80618005844AB	—	—	—	—	—	—	—	—	—	—
1.8 GHz	—	45	D525 (DC)	22 x 22 mm	FC-BGA8	—	1 MB	—	13W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.8 GHz	—	45	D425 (SC)	22 x 22 mm	FC-BGA8	—	512 KB	—	10W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.66 GHz	—	45	D510 (DC)	22 x 22 mm	FC-BGA8	—	1 MB	—	13W	0-100	AU80610000392AA	—	—	—	—	—	—	—	—	—	—
1.66 GHz	—	45	D410 (SC)	22 x 22 mm	FC-BGA8	—	1 MB	—	10W	0-100	AU80610004671AA	—	—	—	—	—	—	—	—	—	—
1.5 GHz	—	45	N550 (DC)	22 x 22 mm	FC-BGA8	—	1 MB	—	8.5W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.83 GHz	—	45	N475 (SC)	22 x 22 mm	FC-BGA8	—	512 KB	—	6.5W	0-100	AU80610006240AA	—	—	—	—	—	—	—	—	—	—
1.66 GHz	—	45	N455 (SC)	22 x 22 mm	FC-BGA8	—	512 KB	—	6.5W	0-100	AU80610006237AA	—	—	—	—	—	—	—	—	—	—
1.66 GHz	—	45	N450 (SC)	22 x 22 mm	FC-BGA8	—	512 KB	—	5.5W	0-100	AU80610004653AA	—	—	—	—	—	—	—	—	—	—
1.6 GHz	—	45	N270 (SC)	22 x 22 mm	µFC-BGA8	533	512 KB	—	2.5W	0-90	AU80586GE025D	—	—	—	—	—	—	—	—	—	—
2.13 GHz	640 MHz (Base)	32	D2700	22 x 22 mm	FCBGA559	—	1MB	—	10W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.8 GHz	—	32	N2800	22 x 22 mm	FCBGA559	—	1MB	—	8W	0-100	—	—	—	—	—	—	—	—	—	—	√
1.6 GHz	—	32	N2600	22 x 22 mm	FCBGA559	—	1MB	—	3.5W	0-100	—	—	—	—	—	—	—	—	—	—	√
Intel® Core™ i7/ i5/ i3																					
2.66 GHz (Base)	500 MHz (Base)	32	i7-620M	Socket G 37.5 x 37.5 mm	PGA	—	4 MB (L3)	—	35W	CPU: 0-105 GFX/ MEM.: 0-100	CP80617003981AH	—	—	—	—	√	—	—	—	—	—
2.53 GHz (Base)	500 MHz (Base)	32	i7-610E	BGA1288 34 x 28 mm	BGA	—	4 MB (L3)	—	35W	CPU: 0-105 GFX/ MEM.: 0-100	CN80617005745AB	—	—	—	√	—	—	—	—	—	—
2.0 GHz (Base)	266 MHz (Base)	32	i7-620LE	BGA1288 34 x 28 mm	BGA	—	4 MB (L3)	LV	25W	CPU: 0-105 GFX/ MEM.: 0-100	CN80617004455AB	—	—	—	√	—	—	—	—	—	—
1.06 GHz (Base)	166 MHz (Base)	32	i7-620UE	BGA1288 34 x 28 mm	BGA	—	4 MB (L3)	ULV	18W	CPU: 0-105 GFX/ MEM.: 0-100	CN80617004458AB	—	—	—	√	—	—	—	—	—	—
1.33 GHz (Base)	166 MHz (Base)	32	i7-660UE	BGA1288 34 x 28 mm	BGA	—	4 MB (L3)	ULV	18W	CPU: 0-105 GFX/ MEM.: 0-100	CN80617006204AA	—	—	—	√	—	—	—	—	—	—

AAEON an ASUS assoc. co.

Note: All specifications are subject to change without notice.

AAEON's Embedded Mobile CPU Support Matrix

Intel® Embedded CPU Support Matrix

	PCM-LN02, GENE-LN05 Rev. B	EPIC-HD07	EPIC-CV07, GENE-CV05	COM-945	XTX-945	COM-GV	COM-LN Rev. A	COM-LN Rev. B	NanoCOM-LN	PFM-LNP	COM-945GSE, XTX-945GSE, ETX-945GSE	EPIC-9457, EPIC-9457B, PFM-945C	GENE-9455 /GENE-9455 Rev. B	COM-TC, NanoCOM-TC, GENE-TC05	XTX-U15B, GENE-U15B	COM-U15, NanoCOM-U15	PCM-8152, PCM-8150	GENE-8310	EMB-QM57	EMB-9658T	EMB-9458T, EMB-9457, EMB-9457B	EMB-9459T, EMB-9459TB	EMB-852T	HSB-525I	HSB-965P	HSB-945P	HSB-910I	HSB-800I	IMBI-QM57	EMB-QM67
Intel® Atom™																													
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Intel® Core™ i7/ i5/ i3																													
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AAEON's Embedded Mobile CPU Support Matrix

Intel® Embedded CPU Support Matrix

CPU Frequency	Graphics Frequency	MFG Tech (nm)	Code	Socket Pin-out	Package	FSB (MHz)	L2/L3 Cache	Voltage Type	TDP	Tc/Tj (°C)	Intel® P/N	GENE-QM67, GENE-QM77	COM-QM77 Rev. A	COM-QM77 Rev. B	COM-QM57	GENE-QM57, EPIC-QM57	COM-45GS	COM-45SP	GENE-9655	PCM-9452, EPIC-9456, GENE-9310	PFM-CVS
2.4 GHz (Base)	500 MHz (Base)	32	i5-520M	Socket G 37.5 x 37.5 mm	PGA	—	3 MB (L3)	—	35W	CPU: 0-105 GFX/ MEM.: 0-100	CP80617004119AE	—	—	—	—	√	—	—	—	—	—
2.4 GHz (Base)	500 MHz (Base)	32	i5-520E	BGA1288 34 x 28 mm	BGA	—	3 MB (L3)	—	35W	CPU: 0-105 Gfx/ Mem.: 0-100	CN80617004461AB	—	—	—	√	—	—	—	—	—	—
2.13G (Base)	500 MHz (Base)	32	i3-330M	Socket G 37.5 x 37.5 mm	PGA	—	3 MB (L3)	—	35W	CPU: 0-105 Gfx/ Mem.: 0-100	CP80617004122AG	—	—	—	—	—	—	—	—	—	—
2.13 GHz (Base)	500 MHz (Base)	32	i3-330E	BGA1288 34 x 28 mm	BGA	—	3 MB (L3)	—	35W	CPU: 0-105 Gfx/ Mem.: 0-100	CN80617004467AC	—	—	—	√	—	—	—	—	—	—
1.86 GHz	500 MHz (Base)	32	P4500	Socket G 37.5 x 37.5 mm	PGA	—	2M (L3)	—	35W	CPU: 0-105 Gfx/ Mem.: 0-100	CP80617004803AA	—	—	—	—	√	—	—	—	—	—
1.86 GHz	500 MHz (Base)	32	P4505	BGA1288 34 x 28 mm	BGA	—	2M (L3)	—	35W	CPU: 0-105 Gfx/ Mem.: 0-100	CN80617004545AF	—	—	—	√	—	—	—	—	—	—
1.06 GHz	166 MHz (Base)	32	U3405	BGA1288 34 x 28 mm	BGA	—	2M (L3)	ULV	18W	0-100	FF8062700841002	—	—	—	√	—	—	—	—	—	—
2.1 GHz	650 MHz (Base)	32	i7-2710QE	Socket G2 37.5 x 37.5 mm	PGA	—	6M (L3)	—	45W	0-100	AV8062700843908	—	√	—	—	—	—	—	—	—	—
2.1 GHz	650 MHz (Base)	32	i7-2715QE	BGA1023 31 x 24 mm	BGA	—	6M (L3)	—	45W	0-100	AV8062700843908	—	—	√	—	—	—	—	—	—	—
2.2 GHz	500 MHz (Base)	32	i7-2655LE	BGA1023 31 x 24 mm	BGA	—	4M (L3)	LV	25W	0-100	AV8062700849508	—	—	√	—	—	—	—	—	—	—
1.5 GHz	350 MHz (Base)	32	i7-2610UE	BGA1023 31 x 24 mm	BGA	—	4M (L3)	ULV	17W	0-100	AV8062700849607	—	—	√	—	—	—	—	—	—	—
2.5 GHz	650 MHz (Base)	32	i5-2510E	Socket G2 37.5 x 37.5 mm	PGA	—	3M (L3)	—	35W	0-100	FF8062700853304	√	√	—	—	—	—	—	—	—	—
2.5 GHz	650 MHz (Base)	32	i5-2515E	BGA1023 31 x 24 mm	BGA	—	3M (L3)	—	35W	0-100	FF8062700853304	—	—	√	—	—	—	—	—	—	—
2.2 GHz	650 MHz (Base)	32	i3-2330E	Socket G2 37.5 x 37.5 mm	PGA	—	3M (L3)	—	35W	0-100	FF8062700849000	—	√	—	—	—	—	—	—	—	—
2.1 GHz	650 MHz (Base)	32	i3-2310E	BGA1023 31 x 24 mm	BGA	—	3M (L3)	—	35W	0-100	AV8062700849710	—	—	√	—	—	—	—	—	—	—
1.3 GHz	350 MHz (Base)	32	i3-2340UE	BGA1023 31 x 24 mm	BGA	—	3M (L3)	ULV	17W	0-100	AV8062700849116	—	—	√	—	—	—	—	—	—	—
1.6 GHz	650 MHz (Base)	32	B810	Socket G2 37.5 x 37.5 mm	PGA	—	2M (L3)	—	35W	0-100	FF8062700848800	√	√	—	—	—	—	—	—	—	—
1.6 GHz	650 MHz (Base)	32	B810E	BGA1023 31 x 24 mm	BGA	—	3M (L3)	—	35W	0-100	FF8062700848800	—	—	√	—	—	—	—	—	—	—
1.1GHz	350 MHz (Base)	32	847E	BGA1023 31 x 24 mm	BGA	—	2M (L3)	ULV	17W	0-100	AV8062700849902	—	—	√	—	—	—	—	—	—	—
1.4GHz	350 MHz (Base)	32	827E	BGA1023 31 x 24 mm	BGA	—	1.5M (L3)	ULV	17W	0-100	AV8062701082300	—	—	√	—	—	—	—	—	—	—
1.0GHz	350 MHz (Base)	32	807UE	BGA1023 31 x 24 mm	BGA	—	1M (L3)	ULV	10W	0-100	—	—	—	√	—	—	—	—	—	—	—
Intel® Core™ 2 Duo/ Core™ 2 Quad																					
2.53 GHz	—	45	T9400 (Penryn)	Socket P 35 x 35 mm	478 µFC-PGA	1066	6 MB UNIFIED	—	35 W	0-105	AW80576GH0616M	—	—	—	—	√	—	—	—	—	—
2.53 GHz	—	45	T9400 (Penryn)	Socket P 35 x 35 mm	479 µFC-BGA	1066	6 MB Unified	—	35 W	0-105	AV80576GH0616M	—	—	—	—	√	—	—	—	—	—
2.26 GHz	—	45	P8400 (Penryn)	Socket P 35 x 35 mm	478 µFC-PGA	1066	3 MB UNIFIED	LV	25W	0-105	AW80577SH-0513MA	—	—	—	—	√	—	—	—	—	—
2.26 GHz	—	45	P8400 (Penryn)	Socket P 35 x 35 mm	479 µFC-BGA	1066	3 MB UNIFIED	LV	25W	0-105	AV80577SH0513M	—	—	—	—	√	—	—	—	—	—
2.26 GHz	—	45	SP9300 (Penryn)	SFF 22 x 22 mm	µFC-BGA8 (BGA956)	1066	6 MB Unified	—	25 W	0-105	AV80576SH0516M	—	—	—	√	—	—	—	—	—	—
1.86 GHz	—	45	SL9400 (Penryn)	SFF 22 x 22 mm	µFC-BGA8 (BGA956)	1066	6 MB Unified	LV	17 W	0-105	AV80576LH0366M	—	—	—	√	—	—	—	—	—	—

AAEON® an ASUS assoc. co.

Note: All specifications are subject to change without notice.

AAEON's Embedded Mobile CPU Support Matrix

Intel® Embedded CPU Support Matrix

	PCM-LN02, GENE-LN05 Rev. B	EPIC-HD07	EPIC-CV07, GENE-CV05	COM-945	XTX-945	COM-GV	COM-LN Rev. A	COM-LN Rev. B	NanoCOM-LN	PFM-LNP	COM-945GSE, XTX-945GSE, ETX-945GSE	EPIC-9457, EPIC-9457B, PFM-945C	GENE-9455 /GENE-9455 Rev. B	COM-TC, NanoCOM-TC, GENE-TC05	XTX-U15B, GENE-U15B	COM-U15, NanoCOM-U15	PCM-8152, PCM-8150	GENE-8310	EMB-QM57	EMB-9658T	EMB-9458T, EMB-9457, EMB-9457B	EMB-9459T, EMB-9459TB	EMB-852T	HSB-525I	HSB-965P	HSB-945P	HSB-910I	HSB-800I	IMBI-QM57	EMB-QM67
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Intel® Core™ 2 Duo/ Core™ 2 Quad																													
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AAEON's Embedded Mobile CPU Support Matrix

Intel® Embedded CPU Support Matrix

CPU Frequency	Graphics Frequency	MFG Tech (nm)	Code	Socket Pin-out	Package	FSB (MHz)	L2/L3 Cache	Voltage Type	TDP	Tc/Tj (°C)	Intel® P/N	GENE-QM67, GENE-QM77	COM-QM77 Rev. A	COM-QM77 Rev. B	COM-QM57	GENE-QM57, EPIC-QM57	COM-45GS	COM-45SP	GENE-9655	PCM-9452, EPIC-9456, GENE-9310	PFM-CVS
1.2 GHz	—	45	SU9300 (Penryn)	SFF 22 x 22 mm	µFC-BGA8 (BGA956)	800	3 MB UNIFIED	ULV	10 W	0-105	AV80577UG0093M	—	—	—	√	—	—	—	—	—	—
2.2 GHz	—	65	T7500 (Merom)	Socket P	478 µFC-PGA	800	4 MB UNIFIED	—	35 W	0-100	LF80537GG0494M	—	—	—	—	—	—	—	—	—	—
2.2 GHz	—	65	T7500 (Merom)	Socket P	479 µFC-BGA	800	4 MB UNIFIED	—	35 W	0-100	LE80537GG0494M	—	—	—	—	—	—	—	—	—	—
1.6 GHz	—	65	L7500 (Merom)	Socket P	479 µFC-BGA	800	4 MB Unified	LV	17 W	0-100	LF80537LG0254M	—	—	—	—	—	—	—	√	—	—
1.06 GHz	—	65	U7500 (Merom)	Socket P	479 µFC-BGA	533	2 MB Unified	ULV	10 W	0-100	LE80537UE0042ML (SLV3X)	—	—	—	—	—	—	—	√	—	—
1.06 GHz	—	65	U7500 (Merom)	Socket M	479 µFC-BGA	533	2 MB UNIFIED	ULV	10 W	0-100	LE80537UE0042M (SLAUT)	—	—	—	—	—	—	—	—	√	—
2.16 GHz	—	65	T7400 (Merom)	Socket M	478 µFC-PGA	667	4 MB UNIFIED	—	34 W	0-100	LF80537GF0484M	—	—	—	—	—	—	—	—	√	—
2.16 GHz	—	65	T7400 (Merom)	Socket M	479 µFC-BGA	667	4 MB UNIFIED	—	34 W	0-100	LE80537GF0484M	—	—	—	—	—	—	—	—	√	—
1.5 GHz	—	65	L7400 (Merom)	Socket M	479 µFC-BGA	667	4 MB Unified	LV	17 W	0-100	LE80537LF0214M	—	—	—	—	—	—	—	—	√	—
Intel® Core™ Duo																					
2.0 GHz	—	65	T2500 (Yonah)	Socket M	478 µFC-PGA	667	2 MB	—	31 W	0-100	LF80539GF0412MX	—	—	—	—	—	—	—	—	√	√
2.0 GHz	—	65	T2500 (Yonah)	Socket M	479 µFC-BGA	667	2 MB	—	31 W	0-100	LE80539GF0412M	—	—	—	—	—	—	—	—	√	√
1.66 GHz	—	65	L2400 (Yonah)	Socket M	479 µFC-BGA	667	2 MB	LV	15 W	0-100	LE80539LF0282M	—	—	—	—	—	—	—	—	√	√
1.2 GHz	—	65	U2500 (Yonah)	Socket M	479 µFC-BGA	533	2 MB	ULV	9.0 W	0-100	LE80539UE0092MX	—	—	—	—	—	—	—	—	√	√
Intel® Pentium® M																					
2.0 GHz	—	90	760	—	478 µFC-PGA	533	2 MB	—	27 W	0-100	RH80536GE0412M	—	—	—	—	—	—	—	—	—	—
1.8 GHz	—	90	745	—	478 µFC-PGA	400	2 MB	—	21 W	0-100	RH80536GC0332M	—	—	—	—	—	—	—	—	—	—
1.8 GHz	—	90	745	—	479 µFC-BGA	400	2 MB	—	21 W	0-100	LE80536GC0332M	—	—	—	—	—	—	—	—	—	—
1.4 GHz	—	90	738	—	479 µFC-BGA	400	2 MB	LV	10 W	0-100	LE80536LC0172M	—	—	—	—	—	—	—	—	—	—
1.6 GHz	—	130	—	—	478 µFC-PGA	400	1 MB	—	24.5 W	0-100	RH80535GC0251M	—	—	—	—	—	—	—	—	—	—
1.6 GHz	—	130	—	—	479 µFC-BGA	400	1 MB	—	24.5 W	0-100	LE80535GC0251M	—	—	—	—	—	—	—	—	—	—
1.1 GHz	—	130	—	—	479 µFC-BGA	400	1 MB	LV	12 W	0-100	LE80535LC0051M	—	—	—	—	—	—	—	—	—	—
Intel® Celeron® M																					
1.9 GHz (D. Core)	—	45	T3100	Socket P 35 x 35 mm	478 µFC-PGA	800	1 MB	—	35 W	—	—	—	—	—	—	—	—	√	—	—	—
1.9 GHz (D. Core)	—	45	T3100	Socket P 35 x 35 mm	479 µFC-BGA	800	1 MB	—	35 W	—	—	—	—	—	—	—	—	√	—	—	—
1.2 GHz (S. Core)	—	45	723 (Penryn)	SFF 22 x 22 mm	µFC-BGA8 (BGA956)	800	1 MB	LV	10 W	—	AV80585VG0091M	—	—	—	—	—	√	—	—	—	—
1.2 GHz (S. Core)	—	45	722 (Penryn)	SFF 22 x 22 mm	µFC-BGA8 (BGA956)	800	1 MB	ULV	5.5 W	—	AV80585VG0091MP	—	—	—	—	—	√	—	—	—	—
2.0 GHz (S. Core)	—	65	575 (Merom)	Socket P 35 x 35 mm	479 µFC-PGA	667	1 MB	—	31 W	—	LF80537NF0411M	—	—	—	—	—	—	√	—	—	—
1.0 GHz (S. Core)	—	65	573 (Merom)	Socket P 35 x 35 mm	479 µFC-BGA	533	512KB	LV	10 W	—	—	—	—	—	—	—	—	—	√	—	—
2.0 GHz (S. Core)	—	65	550 (Merom)	Socket P	478 µFC-PGA	533	1 MB	—	31 W	0-100	LF80537NE0411M	—	—	—	—	—	—	—	√	—	—
2.0 GHz (S. Core)	—	65	550 (Merom)	Socket P	479 µFC-BGA	533	1 MB	—	31 W	0-100	LE80537NE0411M	—	—	—	—	—	—	—	√	—	—

AAEON® an ASUS assoc. co.

Note: All specifications are subject to change without notice.

AAEON's Embedded Mobile CPU Support Matrix

Intel® Embedded CPU Support Matrix

	PCM-LN02, GENE-LN05 Rev. B	EPIC-HD07	EPIC-CV07, GENE-CV05	COM-945	XTX-945	COM-GV	COM-LN Rev. A	COM-LN Rev. B	NanoCOM-LN	PFM-LNP	COM-945GSE, XTX-945GSE, ETX-945GSE	EPIC-9457, EPIC-9457B, PFM-945C	GENE-9455 /GENE-9455 Rev. B	COM-TC, NanoCOM-TC, GENE-TC05	XTX-U15B, GENE-U15B	COM-U15, NanoCOM-U15	PCM-8152, PCM-8150	GENE-8310	EMB-QM57	EMB-9658T	EMB-9458T, EMB-9457, EMB-9457B	EMB-9459T, EMB-9459TB	EMB-852T	HSB-525I	HSB-965P	HSB-945P	HSB-910I	HSB-800I	IMBI-QM57	EMB-QM67
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Intel® Core™ Duo																														
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Intel® Pentium® M																														
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Intel® Celeron® M																														
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AAEON's Embedded Mobile CPU Support Matrix

Intel®/ AMD Embedded CPU Support Matrix

CPU Frequency	Graphics Frequency	MFG Tech (nm)	Code	Socket Pin-out	Package	FSB (MHz)	L2/L3 Cache	Voltage Type	TDP	Tc/Tj (°C)	Intel® P/N	GENE-QM67, GENE-QM77	COM-QM77 Rev. A	COM-QM77 Rev. B	COM-QM57	GENE-QM57, EPIC-QM57	COM-45GS	COM-45SP	GENE-9655	PCM-9452, EPIC-9456, GENE-9310	PFM-CVS
1.73 GHz (S. Core)	—	65	530 (Merom)	Socket M	478 µFC-PGA	533	1 MB	—	31 W	0-100	LF80537NE0301M	—	—	—	—	—	—	—	—	√	—
1.73 GHz (S. Core)	—	65	530 (Merom)	Socket M	479 µFC-BGA	533	1 MB	—	31 W	0-100	LE80537NE0301M	—	—	—	—	—	—	—	—	√	—
1.86 GHz (S. Core)	—	65	440 (Yonah)	Socket M	478 µFC-PGA	533	1 MB	—	27 W	0-100	LF80538NE0361M	—	—	—	—	—	—	—	—	√	—
1.86 GHz (S. Core)	—	65	440 (YONAH)	Socket M	479 µFC-BGA	533	1 MB	—	27 W	0-100	LE80538NE0361M	—	—	—	—	—	—	—	—	√	—
1.06 GHz (S. Core)	—	65	423 (YONAH)	Socket M	479 µFC-BGA	533	1 MB	ULV	5.5 W	0-100	LE80538VE0041M	—	—	—	—	—	—	—	—	√	—
1.5 GHz	—	90	370	—	478 µFC-PGA	400	1 MB	—	21 W	0-100	RH80536NC0211M	—	—	—	—	—	—	—	—	—	—
1.5 GHz	—	90	370	—	479 µFC-BGA	400	1 MB	—	21 W	0-100	LE80536NC0211M	—	—	—	—	—	—	—	—	—	—
1.0 GHz	—	90	373	—	479 µFC-BGA	400	512 KB	ULV	5.5W	0-100	LE80536VC001512	—	—	—	—	—	—	—	—	—	—
1.0 GHz	—	90	—	—	479 µFC-BGA	400	0 KB	ULV	5.5W	0-100	LE80554VC0010M	—	—	—	—	—	—	—	—	—	—
1.3 GHz	—	130	320	—	478 µFC-PGA	400	512 KB	—	24.5 W	0-100	RH80535NC013512	—	—	—	—	—	—	—	—	—	—
1.3 GHz	—	130	320	—	479 µFC-BGA	400	512 KB	—	24.5 W	0-100	LE80535NC013512	—	—	—	—	—	—	—	—	—	—
600 MHz	—	130	—	—	479 µFC-BGA	400	512 KB	ULV	7.0 W	0-100	LE80535VC600512	—	—	—	—	—	—	—	—	—	—
AMD																					
1.65GHz (Dual core)	—	—	T56N	Micro-BGA	413P	—	—	—	18W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.0GHz (Dual core)	—	—	T40N	Micro-BGA	413P	—	—	—	9W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.0GHz (Dual core)	—	—	T40E	Micro-BGA	413P	—	—	—	6.4W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.5GHz (Single core)	—	—	T52R	Micro-BGA	413P	—	—	—	18W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.2GHz (Single core)	—	—	T44R	Micro-BGA	413P	—	—	—	9W	0-100	—	—	—	—	—	—	—	—	—	—	—
1.0GHz (Single core)	—	—	T40R	Micro-BGA	413P	—	—	—	5.5	0-100	—	—	—	—	—	—	—	—	—	—	—
500 MHz	—	—	LX800	—	BGA	400	128 K	—	3.6W	—	—	—	—	—	—	—	—	—	—	—	—

AAEON® an ASUS assoc. co.

Note: All specifications are subject to change without notice.

AAEON's Embedded Mobile CPU Support Matrix

Intel®/ AMD Embedded CPU Support Matrix

	PCM-LN02, GENE-LN05 Rev. B	EPIC-HD07	EPIC-CV07, GENE-CV05	COM-945	XTX-945	COM-CV	COM-LN Rev. A	COM-LN Rev. B	NanoCOM-LN	PFM-LNP	COM-945GSE, XTX-945GSE, ETX-945GSE	EPIC-9457, EPIC-9457B, PFM-945C	GENE-9455 /GENE-9455 Rev. B	COM-TC, NanoCOM-TC, GENE-TC05	XTX-U15B, GENE-U15B	COM-U15, NanoCOM-U15	PCM-8152, PCM-8150	GENE-8310	EMB-QM57	EMB-9658T	EMB-9458T, EMB-945T, EMB-945TB	EMB-9459T, EMB-9459TB	EMB-852T	HSB-525I	HSB-965P	HSB-945P	HSB-910I	HSB-800I	IMBI-QM57	EMB-QM67	
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AAEON's Embedded Desktop CPU Support Matrix

Group	Processor	Processor No	Clock Speed	Cache	FSB	Product Code	Socket	Processor Generation
Desktop	Xeon® Processor	X3430	2.40 GHz	8M	1333	BV80605001914AG	LGA1156	Ibex Peak
Desktop	Xeon® Processor	X3450	2.66 GHz	8M	1333	BV80605001911AQ	LGA1156	Ibex Peak
Desktop	Core™ 2 Quad Processor	Q9400	2.66 GHz	6M	1333	AT80580PJ0676M	LGA775	Yorkfield
Desktop	Core™ 2 Duo Processor	E8400	3.0 GHz	6M	1333	EU80570PJ0806M	LGA775	Wolfdale
Desktop	Core™ 2 Duo Processor	E7400	2.8 GHz	3M	1066	AT80571PH0723M	LGA775	Wolfdale
Desktop	Core™ 2 Duo Processor	E6500	2.93 GHz	2M	1066	—	LGA775	Wolfdale
Desktop	Core™ 2 Duo Processor	E5300	2.6 GHz	2M	800	AT80571PG0642M	LGA775	Wolfdale
Desktop	Celeron® Dual-Corer	E3400	2.6 GHz	1M	800	—	LGA775	Wolfdale
Desktop	Core™ 2 Duo Processor	E6400	2.13 GHz	2M	1066	HH80557PH0462M	LGA775	Conroe
Desktop	Core™ 2 Duo Processor	E4300	1.8 GHz	2M	800	HH80557PG0332M	LGA775	Conroe
Desktop	Pentium® Dual-Core	E2160	1.8 GHz	1M	800	HH80557PG0331M	LGA775	Conroe
Desktop	Celeron® Dual-Corer	E1500	2.2 GHz	512K	800	HH80557PG049D	LGA775	Conroe
Desktop	Celeron® Processor	440	2.0GHz	512K	800	HH80557RG041512	LGA775	Conroe-L
Desktop	Pentium® 4 Processor	651	3.4GHz	2M	800	HH80552PG0962M	LGA775	Cedar Mill
Desktop	Pentium® 4 Processor	551	3.4GHz	1M	800	—	LGA775	Prescott
Desktop	Pentium® 4 Processor	531	3.0GHz	1M	800	HH80547PG0801MM	LGA775	Prescott
Desktop	Celeron® D Processor	352	3.2GHz	512K	533	HH80552RE088512	LGA775	Cedar Mill
Desktop	Celeron® D Processor	341	2.93GHz	256K	533	—	LGA775	Prescott
Desktop	Celeron® D Processor	335	2.8GHz	256K	533	—	mPGA 478	Prescott
Desktop	Pentium® 4 Processor	—	3.0GHz	1M	800	—	mPGA 478	Prescott
Desktop	Pentium® 4 Processor	—	2.8GHz	512K	533	RK80532PE072512	mPGA 478	Northwood
Desktop	Pentium® 4 Processor	—	2.6GHz	512K	400	—	mPGA 478	Northwood
Desktop	Pentium® 4 Processor	—	2.4GHz	512K	533	RK80532PE056512	mPGA 478	Northwood
Desktop	Pentium® 4 Processor	—	2.0GHz	512K	400	RK80532PC041512	mPGA 478	Northwood
Desktop	Celeron® Processor	—	2.0GHz	128K	400	RK80532RC041128	mPGA 478	Northwood
Desktop	Pentium® 3 Processor	—	1.26GHz	512K	133	RK80530KZ012512	370 FC-PGA2	Tualatin
Desktop	Pentium® 3 Processor	—	1GHz	256K	133	RB80526PZ001256	370 FC-PGA	Coppermine
Desktop	Pentium® 3 Processor	—	866MHz	256K	133	RB80526PZ866256	370 FC-PGA	Coppermine
Desktop	Pentium® 3 Processor	—	850MHz	256K	100	RB80526PY850256	370 FC-PGA	Coppermine
Desktop	Pentium® 3 Processor	—	733MHz	256K	133	RB80526PZ733256	370 FC-PGA	Coppermine
Desktop	Pentium® 3 Processor	—	700MHz	256K	100	RB80526PY700256	370 FC-PGA	Coppermine
Desktop	Celeron® Processor	—	1.2GHz	256K	100	RK80530RY009256	370 FC-PGA2	Tualatin
Desktop	Celeron® Processor	—	850MHz	128K	100	RB80526RY850128	370 FC-PGA	Coppermine
Desktop	Celeron® Processor	—	733MHz	128K	66	RB80526RX733128	370 FC-PGA	Coppermine
Desktop	Celeron® Processor	—	566MHz	128K	66	RB80526RX566128	370 FC-PGA	Coppermine
Desktop	2nd Generation Core™ i7 Processor (95w)	Q77	3.5GHz	8M	1333	CM8062300833908	LGA 1155	I√y Bridge
Desktop	2nd Generation Core™ i5 Processor (95w)	Q77	3.3GHz	6M	1333	CM8062300833803	LGA 1155	I√y Bridge
Desktop	2nd Generation Core™ i3 Processor (65w)	Q77	3.1GHz	8M	1333	CM8062301090600	LGA 1155	I√y Bridge
Desktop	2nd Generation Core™ i7 Processor (95w)	967	3.5GHz	8M	1333	CM8062300833908	LGA 1155	Sandy Bridge
Desktop	2nd Generation Core™ i5 Processor (95w)	967	3.3GHz	6M	1333	CM8062300833803	LGA 1155	Sandy Bridge
Desktop	2nd Generation Core™ i3 Processor (65w)	967	3.1GHz	8M	1333	CM8062301090600	LGA 1155	Sandy Bridge
Desktop	Core™ i7 -860	—	2.8GHz	8M	—	B√80605001908AK	LGA 1156	Clarkdale
Desktop	Core™ i7 -750	—	2.66GHz	8M	—	B√80605001911AP	LGA 1156	Clarkdale
Desktop	Core™ i5 -660	—	3.33GHz	4M	—	CM80616003177AC	LGA 1156	Clarkdale
Desktop	Core™ i3 -540	—	3.06GHz	4M	—	CM80616003060AE	LGA 1156	Clarkdale
Desktop	Pentium® G6950	—	2.8GHz	3M	—	CM80616004593AE	LGA 1157	Clarkdale

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Note: All specifications are subject to change without notice.

AAEON's Embedded Desktop CPU Support Matrix

	FSB-G41H	FSB-960H	FSB-945G	FSB-868G	FSB-860B	IMBI-Q57	IMBI-Q45	IMBM-700	IMBM-935	IMBA-880	IMBA-910	IMBA-967	IMBA-Q77
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Product Launch Date

Model	Launch Date (Month/Year)
Compact Boards	
PCM-5895 Rev. A	02/2007
PCM-8120	05/2007
PCM-5895 Rev. B	10/2008
PCM-9452	03/2008
PCM-LN02	09/2011
EPIC Boards	
EPIC-9456	06/2008
EPIC-8526	07/2008
EPIC-5536	08/2008
EPIC-9457	08/2009
EPIC-QM57	11/2010
EPIC-CV07	Q2/2012
EPIC-HD07	Q2/2012
SubCompact Boards	
GENE-5315	12/2006
GENE-9310	01/2007
GENE-5315 Rev. B	05/2008
GENE-9455	03/2009
GENE-9455 Rev. B	12/2009
GENE-9655	01/2010
GENE-U15B	05/2011
GENE-LN05 Rev. B	07/2011
GENE-QM57	09/2011
GENE-QM67	01/2012
GENE-QM77	Q1/2012
GENE-TC05	12/2011
GENE-CV05	Q1/2012
GENE-TC05W1	Q1/2012
GENE-TC05W2	Q1/2012
GENE-LN05W1 Rev. B	Q1/2012
GENE-LN05W2 Rev. B	Q1/2012
PC/104 Boards	
PFM-540I Rev.A	12/2006
PFM-540I Rev.B	08/2008
PFM-541I	04/2009

Model	Launch Date (Month/Year)
PFM-535S	09/2009
PFM-945C	10/2009
PFM-LNP	08/2010
PFM-CVS	Q2/2012
COM Express Modules	
COM-QM57	11/2011
COM-945	12/2006
COM-945 A1.0	12/2006
COM-945GSE	12/2008
COM-45SP	04/2009
COM-U15	07/2009
COM-45GS	12/2009
COM-LN B1.0	11/2011
COM-LN A1.0	08/2010
COM-TC	11/2011
NanoCOM-TC	11/2011
NanoCOM-U15	08/2009
ECB-917T	12/2011
ECB-916M B1.0	12/2011
ECB-916M A1.0	04/2008
ECB-915A	08/2006
ECB-951D	05/2009
XTX Modules	
XTX-945	03/2008
XTX-915	06/2008
XTX-945GSE	03/2009
XTX-U15B	02/2010
ETX Modules	
ETX-700	01/2008
ETX-701	02/2009
ETX-945GSE	12/2009
Embedded & Industrial Motherboards	
EMB-QM77	Q2/2012
EMB-QM67	12/2011
IMBI-QM57	11/2010
EMB-NM10	12/2011

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Note: All specifications are subject to change without notice.

Product Launch Date

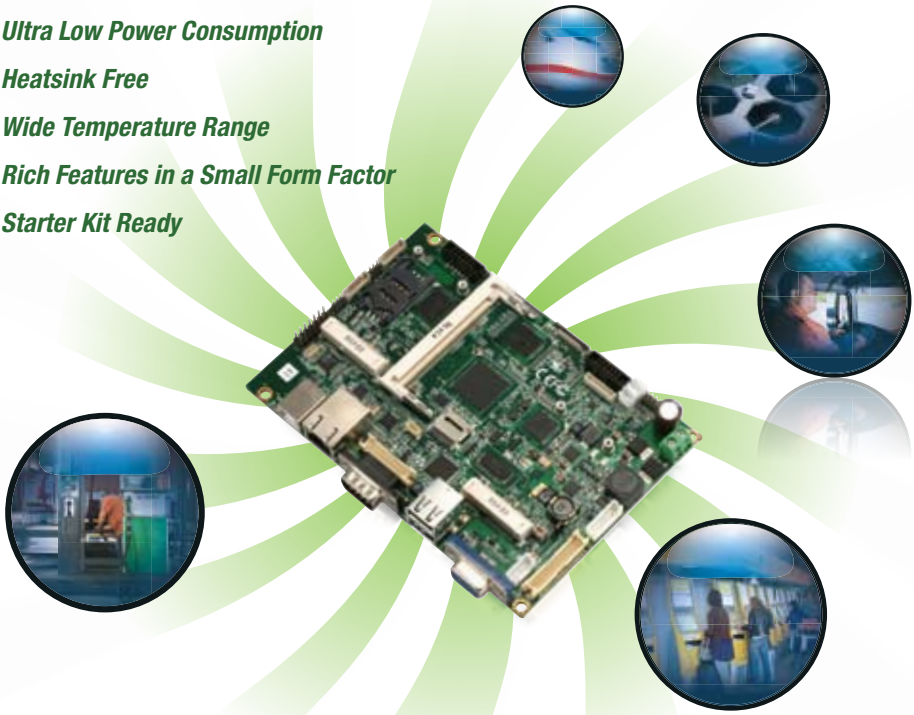
Model	Launch Date (Month/Year)
EMB-A50M	12/2011
EMB-LN9T Rev.B	01/2012
EMB-LN8T	12/2011
EMB-9658T	10/2009
EMB-6908T	04/2009
EMB-9458T	03/2008
EMB-945T Rev. A	04/2006
EMB-945T Rev. B	02/2008
EMB-945T Rev.B	12/2006
EMB-9459T Rev.A2.0	11/2010
EMB-9459T Rev.A	05/2009
EMB-9459T Rev.B	12/2009
IMBI-Q57	01/2011
IMBI-Q45	10/2009
IMBA-Q77	Q2/2012
IMBA-967	10/2011
IMBA-910	04/2008
IMBA-880	07/2006
IMBM-Q77	Q3/2012
IMBM-967	08/2011
IMBM-935	04/2008
IMBM-700	04/2008
RISC Boards	
GENE-1270	09/2006
GENE-1350	04/2008
Full-Size SBCs	
FSB-Q77H	Q3/2012
FSB-G41H	02/2011
FSB-960H	01/2008
FSB-H61G	Q2/2012
FSB-868G	10/2006
FSB-945G	07/2009
FSB-860B	05/2006
PICMG Backplanes	
BP-216QH-P4E8	07/2009
BP-214SH-P3E2I6	08/2008

Model	Launch Date (Month/Year)
BP-208RH-P4E3	02/2009
BP-206VH-P4	08/2008
BP-206VH-E4	12/2007
BP-206SH-P3	03/2008
BP-216-QG-P12	12/2007
BP-214SG-P12	07/2006
BP-214SG-P7	07/2006
BP-214SG-P4	06/2006
BP-206VG-P2	08/2006
BP-208SG-P7	07/2006
BP-208SG-P4	07/2006
BP-206SG-P4	06/2006
BP-206SG-P2	01/2007
Half-size SBCs	
HSB-965P	10/2008
HSB-945P	01/2010
HSB-800P	03/2010
HSB-525I	09/2011
HSB-910I	03/2009
HSB-800I	01/2008
Wallmount Backplanes	
BP-206SP-P4	02/2005
BP-205SP-P4	11/2005
BP-204SP-P3	02/2006
BP-206SS-P4	01/2006
BP-204SS-P1	01/2000
BP-214SI-V61	03/2008
BP-206SI	05/2007
BP-204SI	01/2000
Daughter Boards	
PER-U00A	02/2007
PER-U01H	12/2008
PER-C101	01/2004
PER-C102	06/2005

AAEON's RISC-Based SBC

Texas Instruments OMAP™ Processor

- *Ultra Low Power Consumption*
- *Heatsink Free*
- *Wide Temperature Range*
- *Rich Features in a Small Form Factor*
- *Starter Kit Ready*



RISC Design Support Services

AAEON's experienced design staff offers world class customized board and system development. Our RISC Design Support services include ground-up Custom Designs, Board Modification, and Customized OS Development and Support.

- Custom Designs: In as little as 60 working days, AAEON can design and deliver your custom board prototypes. Our design staff and project teams have extensive experience in developing highly customized products for tightly regulated industries such as Medical Device Manufacturing and Gaming.
- Board Modifications: Need a reduced feature set but want the benefit of off-the-shelf availability? All of AAEON's standard products are available for feature set reduction to lower board costs. Samples are ready in as few as 30 working days.
- Customized OS Support: From changing the boot screen logo to providing custom API's, AAEON's software team is ready to deliver to your specifications in as little as 15 working days.

Note: All specifications are subject to change without notice.

Operating System Support

Windows CE 6.0 & Compact 7:

Windows® CE 6.0 & Compact 7 are instantaneous operating systems for a varied range of enterprise/consumer devices. Development tools such as the Visual Studio 2005 plug-in and Platform Builder offer an Integrated Development Environment (IDE) that lets you create applications with Windows CE software in a common environment.

Android 2.X:

Android 2.X is a particular software stack for mobile devices. Its mobile OS is based on Linux Kernel. Android has an OS, crucial applications and middleware. Many fundamental applications come with Android, such as contacts, SMS program, email client, browser, maps, etc. The Android SDK provides the tools and APIs to utilize applications on the Android platform with Java.

Linux 2.6.32:

Embedded Linux is the designation for Linux-based operating systems that are utilized in many embedded devices. Linux is apt for vertical markets such as Industrial Automation, Machine Equipment, Medical and Navigation. Embedded Linux is different from the server and desktop forms of Linux, since Embedded Linux is designed for devices with comparably limited resources, i.e. smaller RAM capacity and secondary storage.

AAEON's RISC-Based SBC

Based on Texas Instruments OMAP™ processor series, the GENE-1350 is a full function single board computer (also available as a Starter Kit). At less than 3W, the GENE-1350 is an ideal solution for low power and fanless applications. With the integrated battery charger circuitry, it is a transportable platform for mobile applications. The 2 Mini Card slots provide for the addition of features required for mobile products such as 3G and WiFi. This board leaves nothing out, with a Touch Screen Controller, Onboard Memory, Onboard Storage, SD, Camera Interface, Digital Display, etc…

The TI OMAP™ processor gives this board amazing 3D Graphics and Video acceleration with its built in DSP and video controller. Support for multiple operating systems such as Windows Embedded products, Linux and Android make this a highly versatile platform for many applications.

The GENE-1350 operates in extreme environments with its operating temperature range of -40°C to +85°C, making it ideal for outdoor applications such as ATM/KIOSK, Fueling Stations, Charging Stations and other monitoring applications.

The Starter Kit comes with everything you need to hit the ground running and bring up your application fast, such as a 7" LCD, Battery, AC Adaptor and cabling. AAEON's dedicated support staff will work with you to ensure your successful deployment of the GENE-1350.

AAEON's RISC-Based SBC

Starter Kit: SKC-1350

Features of RISC-Based Starter Kit

- Low Power Platform (GENE-1350: less than 3 Watts with P3530)
- Fanless
- Wide Range of Voltage Power
- No HDD Necessary
- Small Form Factor with Versatile I/Os
- Ready-To-Use Starter Kit
- Onboard Memory

Specifications

Starter Kit		TF-SKC-1350-002 (with Battery Pack)/ TF-SKC-1350-003 (without Battery Pack)
Application		Networking
		Handheld Devices
		Automation
		Vehicle PC
		Digital Signage: Advertisement
		Smart Grid
Display	Size	7" LCD
	Max. Resolution	800 x 400 x 18bit LVDS
CPU		TI OMAP™ 3530 600MHz
Memory		Onboard 128 LP DDR RAM
Max. Memory Capacity		256MB
Storage Disk Drive		On board NAND flash, SD slot x 1, MicroSD slot x 1
Touch Screen		4 Wire
Power Supply		DC in +9V to +24V, 19V power adaptor bundled
Operating System		Microsoft™ Windows® CE 6.0
Battery		Lithium Battery Pack (optional)
Accessory Kit		1W Speaker
		LCD Cable
		Power Cord
		Touch Screen Cable
		Audio Cable
		COM Cable
		DC Jack Power Cable
		Optical/Wheel USB Mouse
		Screw & Jumper kit

Ordering Information

- **TF-SKC-1350-002**
  Starter Kit, GENE-1350, with 7" LCD, Touch Screen,+19V Adapter, Battery Pack, WinCE 6.0
- **TF-SKC-1350-003**
  Starter Kit, GENE-1350, with 7" LCD, Touch Screen,+19V Adapter, WinCE 6.0

Packing List

- **Lithium Battery Charger**
- **Board: GENE-1350**
- **7'' Panel LCD**
- **Accessory Kit**
- **+19V AC Power Adapter**
- **Mouse**
- **CD-ROM (w/ Manual)**

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Note: All specifications are subject to change without notice.

Wide Temperature Solutions

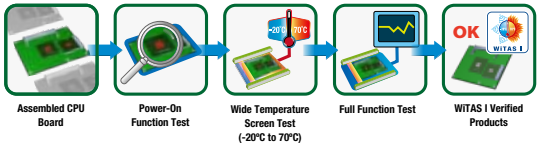
Solution for Wide Temperature Embedded Computing

Applications of embedded computing systems continue to improve the quality and convenience of our lives. As the world population increases which puts greater demands on resources, the need for automation and computing capability in remote regions will arise. To address the requirement for operating in extreme environments, computer platforms must follow design methodologies for wide temperature range operation. In addition, testing and product qualification must follow more stringent criteria to assure continuous operation. As the core of any embedded system, the CPU board plays perhaps the most critical role and therefore requires careful design and validation for wide temperature production.

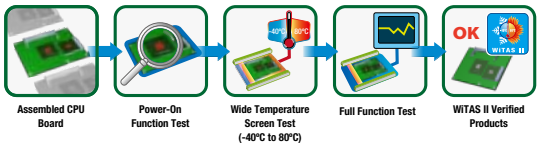
AAEON has designed and manufactured quality embedded products for nearly two decades. The accumulated experience in all aspects of the embedded electronics market gives AAEON a strong position in the development of wide temperature CPU boards and systems. AAEON's Wide Temperature Assurance Services (WiTAS) produce boards in two temperature range classes:
-4°F ~ 158°F (-20°C to 70°C) = WiTAS 1
-40°F ~ 176°F (-40°C to 80°C or 85°C) = WiTAS 2

Processes for WiTAS Production

WiTAS I Production



WiTAS II Production



Application

Applications for wide temperature CPU boards can be found in most industries and markets:

- **Transportation:** Train, Ship, Airplane, and Traffic Surveillance System.
- **Factory Automation:** Power Station, Steel Manufacturer
- **Military:** Field Electronic Devices, Controller
- **Energy:** Windmill Controller, Solar Energy Controller
- **Environmental:** Climate, Water, Air
- **Anti-dust, Fanless Application:** Medical, Chemical, and Pharmacy Factory.

AAEON's Embedded OS Solution

AAEON provides Embedded OS Solutions to customers who are in need of OS customization. Effectively, AAEON's Embedded OS Solutions are designed to shorten time to market and to save its customers' time and R&D resources.

Windows® Embedded Family

Windows Embedded Standard 7

Windows® XP Embedded
Windows® Embedded Standard
Windows® Embedded Standard 7

Entertainment

Industrial Automation

ATM / Kiosk

Office Automation

Windows Embedded Compact 7

Windows® CE4.2
Windows® CE 5.0
Windows® CE 6.0
Windows® Compact 7

Handheld Terminals

Portable Media

Consumer

Medical

Industrial Automation

Thin Client

Robotics

Windows Embedded Enterprise

Windows® 2000
Windows® XP Professional
Windows® Vista Business
Windows® 7 Professional

Kiosks

Entertainment

Windows Embedded POSReady 7

WEPOS 1.1
POSReady 2009
POSReady 7

Point of Service

Windows Embedded Server

Dedicated Servers

Note: All specifications are subject to change without notice.

AAEON's Embedded OS Solution

Embedded OS Main Features

OS Family	Windows® Embedded CE	Windows® Embedded Standard	Windows® Embedded POS Ready	Windows® Embedded Enterprise
Features	Simple Customization	Full Customization	Simple Installation	Full Function
Product Sku	Windows® CE 5.0 Windows® CE 6.0 Windows® Compact 7	Window XP Embedded Windows® Embedded Standard Windows® Embedded Standard 7	WEPOS 1.1 POSReady 7 POSReady 2009	Windows® 2000 Windows® XP Professional Windows® Vista Business Windows® 7 Professional
CPU Type	ARM/ MIPS/ SH4/ X86	x86	x86	x86
Development Tool	Customization Image	Customization Image	CD Installation	CD Installation
Development Time	Long	Short	No	No
Maintenance Cost	High	Middle	Low	Low
Embedded Features	Custom Shell	Custom Shell/ EWF/ FBWF/ USB Boot/ HORM	Custom Shell/ FBWF/ USB Boot	Custom Shell

AAEON Embedded OS Solution

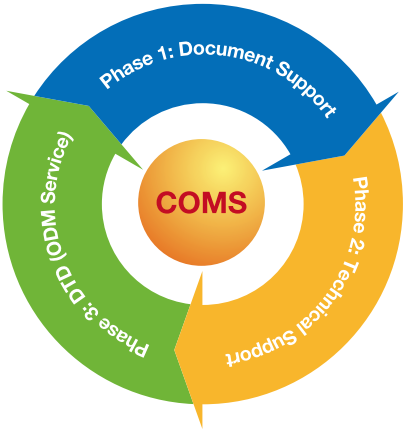
Chipset	Windows® XP Embedded	Windows® Embedded	Windows® CE 5.0	Windows® CE 6.0	Windows® Compact 7
Intel® QM77/ Q77	√	√	—	—	—
Intel® QM67/ Q67/ H61	√	√	—	—	—
Intel® QM57/ Q57	√	√	—	—	—
Intel® GM45/ GS45/ Q45/ G41	√	√	—	—	—
Intel® GME965/ Q965	√	√	—	√	—
Intel® 945GME/ 945G	√	√	—	√	—
Intel® Atom™ D2700/N2800/N2600	√	√	—	—	√
Intel® Atom™ D525/N455/D425	√	√	—	√	—
Intel® Atom™ N450/D410/D510	√	√	—	√	—
Intel® Atom™ N270/945GSE	√	√	—	√	—
Intel® Atom™ E620/E640/E660/E680	√	√	—	—	—
Intel® Atom™ Z530/Z510	√	√	—	√	—
AMD Geode™ LX700/LX800/LX900	√	—	√	√	—

AAEON's Computer On Module Service

Overview

COM (Computer On Module) is a compact CPU board that integrates primary functions into a small form factor module. AAEON's COMS (Computer On Module Service) is geared towards customers for customized carrier board designs. With AAEON's COM Service, customers will benefit from the following:

- Easy installation, maintenance and upgrade
- Faster time to market
- Cost savings
- Lower design risks
- Long-term support



There are three phases for COMS:

Phase 1: Document Support

AAEON provides:

- Reference Schematics
- Design Rules
- Layout Guidelines
- Checklist

Phase 2: Technical Support

AAEON provides:

- Professional consultation for carrier board or system design
- Schematics review of carrier board (upon customer request)

Phase 3: DTD (ODM Service)

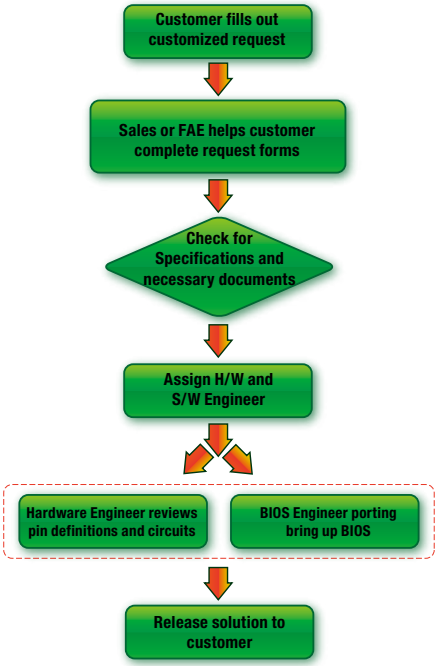
DTD (Design to Delivery) for customized carrier boards

The web-enabled DTD service lets the customer list your carrier board's requirements. AAEON's DTD Team will review the information provided and offer consultation.

- DTD shortens time to market and minimizes your research & development resources.
- AAEON will work closely with you to determine detailed specifications of your custom carrier board.
- After the specifications are approved, AAEON will deliver a prototype carrier board.

You can select different phases and support options based on your needs.

Custom BIOS Service Flow Chart


Customer fills out customized request
Sales or FAE helps customer complete request forms
Check for Specifications and necessary documents
Assign H/W and S/W Engineer
Hardware Engineer reviews pin definitions and circuits
BIOS Engineer porting bring up BIOS
Release solution to customer

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Note: All specifications are subject to change without notice.

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Board Level Products

Wide Temperature Boards

Model	COM-45GSW1	COM-CVW2
Application	Healthcare,Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare,Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Basic Module, Pin-out Type 2	COM Express, Compact Module, Pin-out Type 6
CPU	Intel® Core™ 2 Duo/ Celeron® M (SFF, 22x22 mm)	Onboard Intel® Atom™ D2700/N2600 Dual Core Processors up to 2.13GHz
CPU Frequency	Up to 2.26 GHz/ FSB 1066 MHz	Up to 2.13GHz
Chipset	Intel® GS45 + ICH9M SFF	Intel® NM10
Memory Type	DDR3 800/1066, SODIMM x 2 Supports Dual Channel function	DDR3 1066, SODIMM x 1
Max. Memory Capacity	8 GB	4 GB (64-bit OS)
BIOS	SPI type	SPI type
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82567LM, Gigabit Ethernet	Intel® 82583V, Gigabit Ethernet
VGA/ LCD Controller	Intel® GS45 integrated	Intel® Atom™ D2700/N2600 Processor integrated
Video Output	CRT/ LVDS LCD/ TV/ DisplayPort™/ HDMI/ DVI	CRT/ LVDS LCD/ DisplayPort™/ HDMI
Audio	High Definition Audio Interface	High definition audio interface
USB Port	USB2.0 x 8	USB2.0 x 8
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	PATA x 1 (One device), SATA 2 x 3	SATA 2 x 2
FDD Interface	From LPC interface	From LPC interface
Expansion Slot	PCI-Express [x16] x 1 PCI-Express [x1] x 5 32-bit PCI x 4, LPC Bus x 1 SM Bus x 1, I2C x 1	PCI-Express [x1] x 4 LPC Bus x 1 SM Bus x 1
Power Requirement	+8.5V ~ +19V (Optional) Nominal: +12V	+12V
Power Consumption (Typical)	Intel® SP9300 2.26 GHz, DDR3 1066 4 GB 3A@+12V, 0.81A@+5V (w/ECB-916M)	—
Power Supply Type	AT/ ATX	AT/ ATX
Dimension	4.92" x 3.74" (125mm x 95mm)	3.74" x 3.74" (95mm x 95mm)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	85,000	—
Certification	CE/FCC	CE/FCC

Note: All specifications are subject to change without notice.

Wide Temperature Boards

Model	COM-945GSEW1	NanoCOM-TCW2
Application	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Compact Module, Pin-out Type 2	COM Express, Ultra (Nano) Module, Pin-out Type 10
CPU	Onboard Intel® Atom™ N270	Onboard Intel® Atom™ E680/E620 Processor
CPU Frequency	1.6 GHz/ FSB 533 MHz	Up to 1.6GHz
Chipset	Intel® 945GSE + ICH7M	Intel® EG20T
Memory Type	DDR2 400/533, SODIMM x 1	DDR2 667/800, onboard
Max. Memory Capacity	2 GB	1 GB
BIOS	SPI type	SPI type
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	Fintek 75111
Ethernet	Intel® 82574L, Gigabit Ethernet	Realtek RTL8211CL, Gigabit Ethernet
VGA/ LCD Controller	Intel® 945GSE integrated	Intel® Atom™ E680/E620 processor integrated
Video Output	CRT/ LVDS LCD/ TV/ SDVO	SDVO/ LVDS LCD
Audio	High Definition Audio Interface	High Definition Audio Interface
USB Port	USB2.0 x 8	USB2.0 x 6, USB Host x 1
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	PATA x 1 (Two devices) SATA 1 x 2	SATA SSD onboard (Master device), Max. 4 GB (optional) SATA 2 x 2 (one reserved for SATA SSD)
FDD Interface	From LPC interface	—
Expansion Slot	PCI-Express [x1] x 3 (82801 GBM) 32-bit PCI x 4, LPC Bus x 1 SM Bus x 1, I2C x 1	4-bit SDIO: Multiplexed with 8-bit GPIO pins PCI-Express [x1] x 3 LPC Bus x 1, SM Bus x 1
Power Requirement	+8.5V ~ +19V (optional) Nominal: +12V	+12V
Power Consumption (Typical)	Intel® Atom™ N270 1.6 GHz, DDR2 533 1 GB 1.31A @ 12V, 0.36A @ 5V (w/ECB-916M)	Intel® Atom™ E620 0.6GHz, DDR2 800 1GB 0.5A @+12V
Power Supply Type	AT/ ATX	AT/ ATX
Dimension	3.74" x 3.74" (95mm x 95mm)	3.31" x 2.17" (84mm x 55mm)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	10,000	—
Certification	CE/FCC	CE/FCC

Wide Temperature Boards

Model	PFM-945CW1	PFM-CVSW1/W2
Application	Military, Panel, Operator Terminal, Transportation, Aviation	Industrial Control Box, Industrial Automation Transportation, test & Measurement Security, Defense & Government
Form Factor	PCI/104-Express	PC/104+
CPU	Onboard Intel® Atom™ N270	Intel® Atom™ N2600 Processor
CPU Frequency	1.6 GHz	1.6GHz
Chipset	Intel® 945GSE + ICH7M	Intel® Atom™ N2600 + NM10
Memory Type	Onboard DDR2 400/533 Memory up to 1 GB	DDR3 SODIMM
Max. Memory Capacity	1 GB	2GB
BIOS	Award - 2 MB ROM	AMI 32MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Level
Ethernet	Intel® 82551ER, 10/100Base-TX, RJ-45 x 1	Intel® 82552V, 10/100Base-TX x 1
VGA/ LCD Controller	Intel® 945GSE	Intel® Atom™ N2600 Processor integrated
Video Output	CRT, LVDS	CRT+LVDS 18-bit single channel (20-pin) 1920 x 1200 Up to 400 MHz (VGA) 1440 x 900 @ 112 MHz (LVDS 18/24-bit)
Audio	2CH	Buzzer x 1
USB Port	USB2.0 x 4	USB 2.0 x 4 (1.5 A for 2-port)
Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	—	—
HDD Interface	SATA 1 x 1	SATA2 x 1
FDD Interface	—	—
SSD	CompactFlash™	—
Expansion Slot	PCI/104-Express	PC/104 +, Mini PCIe/ mSATA (switch by R)
Power Requirement	+12V	+12V
Power Consumption (Typical)	Atom™ N270 1.6 GHz, DDR2 533 1 GB 1.56A@12V	—
Power Supply Type	AT/ATX	AT / ATX
Dimension	4.05" x 3.77" (102.8mm x 96mm)	3.55" x 3.77"(90mm x 96mm)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C) -40°F ~ 176°F (-40°C ~ 80°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	52,000	—
Certification	CE/FCC	CE/FCC Class A
Note	18-bit LVDS	Multi-display: CRT, 18-bit LVDS
	TAIWAN EXCELLENCE 2010	

Note: All specifications are subject to change without notice.

Wide Temperature Boards

Model	PFM-541IW2	PFM-540IW1 Rev. B
Application	Military, Panel, Operator Terminal, Transportation, Aviation	Military, Panel, Operator Terminal, Transportation, Aviation
Form Factor	PC/104	PC/104
CPU	AMD Geode™ LX 800	AMD Geode™ LX 800
CPU Frequency	500 MHz	500 MHz
Chipset	AMD Geode™ LX 800 + CS5536	AMD Geode™ LX 800 + CS5536
Memory Type	Onboard DDR333 Memory up to 256MB	DDR333/400, SODIMM x 1, (512 MB for DDR400)
Max. Memory Capacity	256 MB	1 GB
BIOS	Award 1 MB	Award 512 KB
Wake On LAN	—	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82551ER, 10/100Base-TX x 2	Realtek RTL 8139L, 10/100Base-TX x 1
VGA/ LCD Controller	AMD Geode™ LX 800	AMD Geode™ LX 800
Video Output	CRT, TTL LCD	CRT, TTL LCD, LVDS LCD (Using PCM-3538T)
Audio	—	—
USB Port	USB2.0 x 4	USB2.0 x 4
Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	UDMA33 x 1	UDMA 33 x 1
FDD Interface	—	FDD x 1
SSD	CompactFlash™	CompactFlash™
Expansion Slot	PC/104	PC/104
Power Requirement	+5V	+5V
Power Consumption (Typical)	AMD Geode™ LX 800 500 MHz, DDR333 256 MB, 1.83A @ 5V	AMD Geode™ LX 800 500 MHz, DDR400 512MB, 1.53A @ +5V
Power Supply Type	AT	AT
Dimension	3.55" x 3.77" (90mm x 96mm)	3.55" x 3.77" (90mm x 96mm)
Operating Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	—
Certification	CE/FCC	CE/FCC
Note	Multi-display: CRT, TTL	18/24-bit TTL

Wide Temperature Boards

Model	GENE-LN05W1 Rev. B	GENE-TC05W1
Application	Test & Measurement, Industrial Automation, Security, Defense & Government	Industrial Automation, Transportation, Defense & Government
Form Factor	3.5'' SubCompact Board	3.5" SubCompact Board
CPU	Intel® Atom™ D525/N455	Intel® Atom™ E680/E620
CPU Frequency	Up to 1.8GHz	Up to 1.6GHz
Chipset	Intel® ICH8M	Intel® EG20T PCH
Memory Type	DDR3 800, SODIMM x 1	Onboard DDR2 667/800
Max. Memory Capacity	4 GB for D525, 2GB for N455	1 GB
BIOS	AMI 2MB	AMI 2MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82567V & Intel® 82583V, 10/100/1000Base-TX x 2	Realtek RTL8211CL& Intel® 82574L, 10/100/1000Base-TX x 2,
VGA/ LCD Controller	Intel® Atom™ D525/N455	Intel® Atom™ E680/E620
Video Output	CRT, LVDS	CRT or DVI (opitonal), LVDS
Audio	2 CH	2 CH
USB Port	USB2.0 x 7	USB2.0 x 4
Serial Port	RS-232 x 5 , RS-232/422/485 x 1	RS-232 x 5, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	—
HDD Interface	SATA 2 x 2	SATA 2 x 1
FDD Interface	—	—
SSD	CompactFlash™	CFast™
Expansion Slot	Mini Card x 1	Mini Card x 2
Power Requirement	+12V or +5V (optional)	+12V
Power Consumption (Typical)	Intel® Atom™ D525, 1 GB DDR3, 1.29A@+12V	Intel® Atom™ E680 1.6GHz, DDR2 1 GB 0.78A@+12V
Power Supply Type	AT/ ATX	AT
Dimension	5.75" x 4" (146mm x 101.6mm)	5.75" x 4" (146mm x 101.6mm)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	66,000	—
Certification	CE/FCC	CE/FCC
Note	Onboard 4/5/8-wire Resistive Touch Screen Controller	Onboard 4/5/8-wire Resistive Touch Screen Controller, CAN Bus

Note: All specifications are subject to change without notice.

Board Level Products

Wide Temperature Boards

Model	GENE-5315W1 Rev. B	EMB-9459TW1 Rev. A
Application	Portable POS, Building/ Factory Automation, Compact Information System, Panel PC, Gaming Machine, Transportation, Medical Machine & KIOSK	Industrial Automation, Entertainment, Networking, KIOSK/POS, Transportation, Banking, Healthcare, Digital Signage
Form Factor	3.5" SubCompact Board	Mini-ITX
CPU	Onboard AMD Geode™ LX 800	Onboard Intel® Atom™ N270
CPU Frequency	500MHz	1.6 GHz (N270)
Chipset	AMD Geode™ LX	Intel® 945GSE + ICH7M
Memory Type	SODIMM DDR333 (DDR400 optional), SODIMM x 1	DDR2 400/533, DIMM x 1
Max. Memory Capacity	1 GB	2 GB
BIOS	Award 1 MB	Award SPI 2 MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Realtek RTL 8139DL,10/100Base-TX x 2	RTL8111C, 10/100/1000Base-TX x 2
VGA/ LCD Controller	AMD Geode™ LX 800	Intel® 945GSE
Video Output	CRT, TTL LCD, LVDS LCD	CRT, LVDS, TV, DVI or Optional 2nd LVDS through SDVO
Audio	2CH	VIA-VT1708B, 5.1CH
USB Port	USB2.0 x 4	USB2.0 x 8
Serial Port	RS-232 x 4 & TTL UART x 1, RS-232/422/485 x 1	RS-232 x 5, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	UDMA33 x 1	UDMA-100 x 1, SATA x 2
FDD Interface	FDD x 1	—
SSD	CompactFlash™	CompactFlash™
Expansion Slot	Mini PCI	PCI, Mini PCI, PCI-E [x1] x 2 (Optional)
Power Requirement	+5V	+12V
Power Consumption (Typical)	AMD Geode™ LX 800 500 MHz, DDR400 1 GB 1.17A@+5V	1.2A@+12V
Power Supply Type	AT/ ATX	DC-12V
Dimension	5.75" x 4" (146mm x 101.6mm)	6.7" x 6.7" (170mm x 170mm)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	90,000	66,000
Certification	CE/FCC	CE/FCC
Note	—	Optional 2nd LVDS, Fanless, Atom™

Compact Boards

Model	PCM-LN02	PCM-9452	PCM-8120
Application	POS, KIOSK, Gaming, Digital Signage, Industrial Automation	Gaming, Entertainment Equipment, Medical Equipment, Public Safety, Security	Building Automation, Factory Automation, KIOSK, Medical Equipment, Panel PC,Transportation
Form Factor	5.25" Compact Board	5.25" Compact Board	5.25" Compact Board
CPU	Onboard Intel® Atom™ N455/ D525	Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M	Onboard VIA C7™/ Eden™ (V4 Bus)
CPU Frequency	Up to 1.83GHz	Up to 2.16 GHz	Up to 2.0 GHz
Chipset	ICH8M	Intel® 945GME + ICH7M (DH Optional for RAID)	VIA CX700M
Memory Type	Onboard 2 GB DDR3 667/800	DDR2 400/533/667, SODIMM x 2	DDR2 400/533, DIMM x1
Max. Memory Capacity	2 GB	4 GB	1 GB
BIOS	AMI 8MB	Award 1 MB	Award 1 MB
Wake On LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	Intel® 82567 + Intel® 82583V	Intel® 82573L, 10/100/1000Base-TX x 2	Realtek RTL 8139DL, 10/100Base-TX x 2
VGA/ LCD Controller	Integrated	Intel® 945GME	VIA CX700M integrated
Video Output	CRT, TTL, or LVDS 18/24 bit	CRT, LVDS LCD	CRT, LVDS LCD, DVI
Audio	2 CH	5.1 CH	5.1 CH
USB Port	USB2.0 x 6	USB2.0 x 6	USB2.0 x 6
Serial Port	RS-232 x 5, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	SATA 2 x 2	UDMA100 x 1, SATA 1 x 2	UDMA100 x 1
FDD Interface	—	—	FDD x 1
SSD	CompactFlash™	CompactFlash™	CompactFlash™
Expansion Slot	PCI, PCMCIA, PC/104+ ,two mini-card (1st: full size+SIM; 2nd: half size)	PCI-Express [x16], Mini PCI, PCI	Mini PCI, PCI, PC/104, PCMCIA
Power Requirement	DC-12V & ATX co-lay	+12V/ +5V	+5V
Power Consumption (Typical)	Intel® Atom™ D525 1.8GHz, DDR2 2 GB, 1.56A@+12V, 0.1A@+5V	T7400 2.16 GHz, DDR2 667 2 GB 2.96A@+12V, 3.72 A@+5V	VIA Eden™ 1 GHz, DDR2 533 1 GB 2.69A@+5V
Power Supply Type	AT/ ATX	ATX	AT/ ATX
Dimension	8" x 5.75" (203mm x 146mm)	8" x 5.75" (203mm x 146mm)	8" x 5.75" (203mm x 146mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	60,000	50,000
Certification	CE/FCC	CE/FCC	CE/FCC
Note	24-bit Single Channel LVDS	18-bit Dual Channel LVDS	24-bit Dual Channel LVDS

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Note: All specifications are subject to change without notice.

Compact Boards

Model	PCM-5895 Rev. A	PCM-5895 Rev. B
Application	Building Automation, Factory Automation, KIOSK, Medical Equipment, Panel PC	Building Automation, Factory Automation, KIOSK, Medical Equipment, Panel PC, Transportation
Form Factor	5.25" Compact Board	5.25" Compact Board
CPU	Onboard AMD Geode™ LX 800	Onboard AMD Geode™ LX 800
CPU Frequency	Up to 500 MHz	Up to 500 MHz
Chipset	AMD Geode™ LX 800 + CS5536	AMD Geode™ LX 800 + CS5536
Memory Type	SDRAM DDR333/400, DIMM x 1	SDRAM DDR333/400 DIMM x 1 or Onboard memory
Max. Memory Capacity	1 GB	1 GB DIMM x 1 or onboard memory 256 MB
BIOS	Award 1 MB	Award 1 MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Realtek RTL8139DL, 10/100Base-TX x 2	Realtek RTL8100C, 10/100Base-TX x 2
VGA/ LCD Controller	AMD Geode™	AMD Geode™
Video Output	CRT, LVDS, TTL	CRT, LVDS, TTL
Audio	2CH	2CH
USB Port	USB2.0 x 4	USB2.0 x 4
Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	UDMA100 x 1	UDMA100 x 1
FDD Interface	FDD x 1	—
SSD	CompactFlash™	CompactFlash™
Expansion Slot	PCI, Mini PCI, PC/104	PCI, PC/104+, CAN x 2 (Optional)
Power Requirement	+5V	+5V
Power Consumption (Typical)	AMD Geode™ LX 800 (500 MHz) DDR400 256 MB 2.33A@+5V	AMD Geode™ LX 800 (500 MHz) DDR400 256 MB 2.33A@+5V
Power Supply Type	AT/ ATX	AT/ ATX
Dimension	8" x 5.75" (203mm x 146mm)	8" x 5.75" (203mm x 146mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000	80,000
Certification	CE/FCC	CE/FCC
Note	24-bit Single Channel LVDS	24-bit Single Channel LVDS

Board Level Products

EPIC Boards

Model	EPIC-QM57	EPIC-9456	EPIC-9457 Rev.A
Application	Industrial Control Box, Industrial Automation, KIOSK, Test & Measurement, Security, Gaming	Industrial Control Box, Industrial Automation, KIOSK, Test & Measurement, Security	Industrial Control Box, Industrial Automation, Transportation, Test & Measurement
Form Factor	EPIC	EPIC	EPIC
CPU	Intel® Core™ i7/ i5 (Socket-988)	Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M	Onboard Intel® Atom™ N270
CPU Frequency	Up to 2.66 GHz	Up to 2.16 GHz	1.6 GHz
Chipset	Intel® QM57	Intel® 945GME + ICH7M	Intel® 945GSE + ICH7M
Memory Type	DDR3 800/1066, SODIMM x 1	DDR2 400/533/667, SODIMM x 1	DDR2 400/533, SODIMM x 1
Max. Memory Capacity	4 GB	2 GB	2 GB
BIOS	AMI 8 MB	Award 2 MB	Award 2 MB
Wake On LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	Intel® 82577LM & Intel® 82574L, 10/100/1000Base-TX x 2	Intel® 82573L, 10/100/1000Base-TX x 2	Intel® 82574L, 10/100/1000Base-TX x 2
VGA/ LCD Controller	Intel® Core™ i7/i5 Mobile	Intel® 945GME	Intel® 945GSE
Video Output	CRT, LVDS, DVI, DisplayPort™	CRT, LVDS LCD, DVI-I	CRT, DVI, LVDS
Audio	2CH	2CH	2CH
USB Port	USB2.0 x 6	USB2.0 x 8	USB2.0 x 6
Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1, TTL x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	SATA 2 x 2	UDMA100 x 1, SATA 1 x 2	UDMA33 x 1, SATA 1 x 2
FDD Interface	—	—	—
SSD	CompactFlash™	CompactFlash™	CompactFlash™
Expansion Slot	PCI/104-Express (PCI-Express & PCI-104)	PCI-104	PCI/104-Express (PCI-Express & PCI-104)
Power Requirement	+12V	+12V	+8.5V ~ 19V
Power Consumption (Typical)	Intel® Core™ i7-620M, DDR3 1066MHz, 1GB 4.02A@+12V	Intel® Core™ Duo T7400, 2.16 GHz, DDR2 667 2 GB 3.02A@+12V	Intel® Atom™ N270 1.6 GHz, DDR2 533 2 GB 1.6A@+12V, 0.4A@5V
Power Supply Type	AT/ATX	AT/ ATX	AT/ATX
Dimension	4.53" x 6.50" (115mm x 165mm)	4.53" x 6.50" (115mm x 165mm)	4.53" x 6.50" (115mm x 165mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	70,000	60,000	60,000
Certification	CE/FCC	CE/FCC	CE/FCC
Note	24-bit Dual Channel LVDS	24-bit Dual Channel LVDS	24-bit Dual Channel LVDS
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Note: All specifications are subject to change without notice.

EPIC Boards

Model	EPIC-9457 Rev.B	EPIC-CV07
Application	Industrial Control Box, Industrial Automation, Transportation, Test & Measurement	Industrial Control Box, Industrial Automation, Transportation, Test&Measurement, Security, Defense& Government
Form Factor	EPIC	EPIC
CPU	Onboard Intel® Atom™ N270	Intel® Atom™ D2700/N2800/N2600
CPU Frequency	1.6 GHz	1.6 GHz~2.13 GHz
Chipset	Intel® 945GME + ICH7M	Intel® Atom™ D2700/N2800/N2600 +NM10
Memory Type	DDR2 400/533 onboard	DDR3 1066 MHz
Max. Memory Capacity	Onboard DDR2 1 GB	Up to 4G
BIOS	Award 2 MB	UEFI
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Level
Ethernet	Intel® 82574L, 10/100/1000Base-TX x 2	Realtek 8111E, Gigabit Ethernet x 2
VGA/ LCD Controller	Intel® 945GME	Intel® Atom™ D2700/N2800/N2600 integrated
Video Output	CRT, DVI, LVDS	CRT, LVDS, DVI
Audio	2CH	ALC662 co-lay ALC886/892
USB Port	USB2.0 x 6	USB 2.0 x 8
Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 8, RS-232/422/485 x 1 (COM 2)
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	UDMA100 x 1, SATA 1 x 2	SATA 2.0 x 2
FDD Interface	—	—
SSD	CompactFlash™	mSATA
Expansion Slot	PCI/104-Express (PCI-Express & PCI-104), Mini Card	PCI-104 x 1, Mini Card x 2 (One support mSATA), Touch Panel feature (Optional), 8-pin DIO 4 in/4out
Power Requirement	+8.5V ~ 19V	DC 12V
Power Consumption (Typical)	Intel® Atom™ N270 1.6 GHz, DDR2 2 GB 1.6A@+12V, 0.4A@5V	—
Power Supply Type	AT/ATX	AT/ATX
Dimension	4.53" x 6.50" (115mm x 165mm)	4.53" x 6.5" (115mm x 165mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	10%~80% relative humidity, non-condensing
MTBF (Hours)	60,000	—
Certification	CE/FCC	CE/FCC Class A
Note	24-bit Dual Channel LVDS	CPU and PCH on solder side, PCB 1.8mm, Dual LVDS

Board Level Products

EPIC Boards

Model	EPIC-HD07	EPIC-5536
Application	Industrial Control Box, Industrial Automation, Transportation, Test&Measurement, Security, Defense& Government	Industrial Control Box, Industrial Automation, Transportation, Test & Measurement,
Form Factor	EPIC	EPIC
CPU	AMD G-series Dual/Single core	AMD Geode™ LX 800
CPU Frequency	1 GHz~1.65 GHz	Up to 500 MHz
Chipset	AMD Geries+A55E FCH	AMD CS5536
Memory Type	DDR3 1066 MHz	SDRAM DDR333 (DDR400 optional), SODIMM x 1
Max. Memory Capacity	Up to 4G	1 GB
BIOS	AMI 8M	Award 1 MB
Wake On LAN	UEFI	Yes
Watchdog Timer	255 Level	255 Levels
Ethernet	Realtek 8111E, Gigabit Ethernet x 2	Realtek 8100C, 10/100Base-TX x 2 (Optional Gigabit Ethernet)
VGA/ LCD Controller	AMD Geries	AMD Geode™ +TI SN75LVDS83
Video Output	CRT, LVDS, DVI	CRT, LVDS & TTL
Audio	ALC662 co-lay ALC886/892	2CH
USB Port	USB 2.0 x 8	USB2.0 x 4 (Does not support wake-up function)
Serial Port	RS-232 x 6, RS-232/422/485 x 1 (COM 2)	RS-232 x 3, TTL only/ GPS x1, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	SATA 2.0 x 1	UDMA100 x 1, SATA 1 x 2
FDD Interface	—	FDD x 1
SSD	mSATA	CompactFlash™
Expansion Slot	PCI-104 x 1, Mini Card x 2 (One supports mSATA), Touch Panel feature (Optional), 8-pin DIO 4 in/4out	PC/104 & PCI-104
Power Requirement	DC 12V	+12V
Power Consumption (Typical)	—	AMD Geode™ LX 800 500 MHz, DDR333 1 GB, 1.35A@12V
Power Supply Type	AT/ATX	AT/ATX
Dimension	4.53" x 6.5" (115mm x 165mm)	4.53" x 6.50" (115mm x 165mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	10%~80% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	70,000
Certification	CE/FCC Class A	CE/FCC
Note	CPU and PCH on solder side, PCB 1.8mm, Dual LVDS	24-bit Dual Channel LVDS & TTL

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Note: All specifications are subject to change without notice.

SubCompact Boards

Model	GENE-QM77	GENE-QM67
Application	Gaming & Entertainment, Industrial Automation, Digital Signage	Gaming & Entertainment, Industrial Automation, Digital Signage
Form Factor	3.5'' SubCompact Board	3.5'' SubCompact Board
CPU	Intel® Core™ i7/i5/i3/Celeron® (Socket-G2 based)	Intel® Core™ i5/i3/Celeron® (Socket-G2 based, 35W)
CPU Frequency	—	Up to 2.5 GHz
Chipset	Intel® PCH QM77	Intel® PCH QM67
Memory Type	DDR3 1066/1333/1600, SODIMM x 1	DDR3 1066/1333, SODIMM x 1
Max. Memory Capacity	8 GB	8 GB
BIOS	AMI 16MB	AMI 8MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82579LM & Realtek RTL-8111E, 10/100/1000Base-TX x 2	Inte®l 82579LM & Realtek RTL-8111E, 10/100/1000Base-TX x 2
VGA/ LCD Controller	Intel® Core™ i7/i5/i3/Celeron®	Intel® Core™ i5/i3/Celeron®
Video Output	CRT, Dual LVDS, DVI, HDMI (Optional)	CRT, Dual LVDS, DVI
Audio	2CH	2CH
USB Port	USB2.0 x 6 , USB3.0 x 2	USB2.0 x 8
Serial Port	RS-232 x 3 , RS-232/422/485 x 1	RS-232 x 3 , RS-232/422/485 x 1
Parallel Port	—	—
HDD Interface	SATA 3 x 2	SATA 3 x 2
FDD Interface	—	—
SSD	CFast™	CFast™
Expansion Slot	Mini Card x 1	Mini Card x 1
Power Requirement	+12V	+12V
Power Consumption (Typical)	—	Intel® Core™ i5-2510E, DDR3 1333 4GB 3.47A@+12V
Power Supply Type	AT/ ATX	AT/ ATX
Dimension	5.75" x 4" (146mm x 101.6mm)	5.75" x 4" (146mm x 101.6mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	—
Certification	CE/FCC	CE/FCC
Note	Supports 24-bit Dual Channel LVDS	Supports 24-bit Dual Channel LVDS

SubCompact Boards

Model	GENE-QM57	GENE-9655
Application	Industrial Automation, Transportation, Test & Measurement	Digital Signage, Building/ Factory Automation, Panel PC, KIOSK, Medical Equipment
Form Factor	3.5" SubCompact Board	3.5" SubCompact Board
CPU	Intel® Core™ i7/i5/Celeron® Mobile	Intel® Core™ 2 Duo/ Celeron® M
CPU Frequency	Up to 2.66GHz	Up to 2.2 GHz
Chipset	Intel® QM57	Intel® GME965 + ICH8M
Memory Type	DDR3 800/1066, SODIMM x 1	DDR2 533/667, SODIMM x 1
Max. Memory Capacity	4 GB	2 GB
BIOS	AMI 8MB	Award 2MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82577LM & Intel® 82574L, 10/100/1000Base-TX x 2,	Intel® 82574L & 82566MM, 10/100/1000Base-TX x 2
VGA/ LCD Controller	Intel® Core™ i7/i5/Celeron® Mobile	Intel® GME965
Video Output	CRT, LVDS, DVI	CRT or DVI-I, LVDS LCD
Audio	2CH	2CH
USB Port	USB2.0 x 8	USB2.0 x 6
Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	—	—
HDD Interface	SATA 2 x 2	SATA 2 x 1
FDD Interface	—	—
SSD	CFast™	CompactFlash™
Expansion Slot	Mini Card	Mini PCI, Mini Card
Power Requirement	+12V	+12V
Power Consumption (Typical)	Intel® Core™ i7-620M, DDR3 1066 4GB, 3.64A@+12V	Intel® Core™ 2 Duo T7500 2.2 GHz, DDR2 667 2GB, 4.12A @ +12V
Power Supply Type	AT/ATX	AT/ATX
Dimension	5.75" x 4" (146mm x 101.6mm)	5.75" x 4" (146mm x 101.6mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	50,000	70,000
Certification	CE/FCC	CE/FCC
Note	Supports 24-bit Dual Channel LVDS	Supports 24-bit Dual Channel LVDS

Note: All specifications are subject to change without notice.

SubCompact Boards

Model	GENE-9310	GENE-9455 Rev.A
Application	Elevator Display Systems, Portable Devices, Portable POS, Building/Factory Automation, Compact Information System, Medical Equipment, Panel PC	Elevator Display Systems, Portable Devices, Portable POS, Building/Factory Automation, Compact Information System, Medical Equipment, Panel PC
Form Factor	3.5" SubCompact Board	3.5" SubCompact Board
CPU	Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M	Onboard Intel® Atom™ N270 Processor
CPU Frequency	Up to 2.16 GHz	1.6 GHz
Chipset	Intel® 945GME + ICH7M	Intel® 945GSE + ICH7M
Memory Type	DDR2 400/533/667, SODIMM x 1	DDR2 400/533, SODIMM x 1
Max. Memory Capacity	2 GB	2 GB
BIOS	Award 1 MB	Award 2MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82573L, 10/100/1000Base-TX x 1	Intel® 82574L, 10/100/1000Base-TX x 2
VGA/ LCD Controller	Intel® 945GME	Intel® 945GSE
Video Output	CRT, LVDS LCD	CRT, Dual LVDS LCDs
Audio	2CH	2CH
USB Port	USB2.0 x 4	USB2.0 x 4
Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	—	—
HDD Interface	UDMA33 x 1, SATA 1 x 2	UDMA33 x 1, SATA 1 x 2
FDD Interface	—	—
SSD	CompactFlash™	CompactFlash™
Expansion Slot	Mini PCI, Proprietary ECX Expansion Connector	Mini PCI, Proprietary ECX Expansion Connector
Power Requirement	+12V	+8.5 ~ +19V or +5V only
Power Consumption (Typical)	Core™ 2 Duo T7400 2.16 GHz, DDR2 667 1 GB 3.89A@+12V	Intel® Atom™ N270, DDR2 667 2 GB , 2.89A @ +5V
Power Supply Type	AT/ ATX	AT/ATX
Dimension	5.75" x 4" (146mm x 101.6mm)	5.75" x 4" (146mm x 101.6mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	70,000	70,000
Certification	CE/FCC	CE/FCC
Note	Flexible Expansion, supports 24-bit Dual Channel LVDS	Flexible Expansion, Wide Range Power Input, 4 COM Ports & Low Power, 4/5/8-wire Touchscreen Optional
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Board Level Products

SubCompact Boards

Model	GENE-9455 Rev. B	GENE-LN05 Rev.B	GENE-CV05
Application	Digital Signage, Building/Factory Automation, Panel PC, KIOSK	Test & Measurement, Industrial Automation, Security, Defense & Government	Test & Measurement, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	3.5" SubCompact Board	3.5'' SubCompact Board	3.5'' SubCompact Board
CPU	Onboard Intel® Atom™ N270 Processor	Intel® Atom™ D525/N455	Intel® Atom™ D2700/N2800/ N2600
CPU Frequency	1.6 GHz	Up to 1.8GHz	Up to 2.13GHz
Chipset	Intel® 945GSE + ICH7M	Intel® ICH8M	Intel® NM10
Memory Type	DDR2 400/533, SODIMM x 1	DDR3 800, SODIMM x 1	DDR3 1066, SODIMM x 1
Max. Memory Capacity	2 GB	4 GB for D525, 2GB for N455	4 GB
BIOS	Award 2MB	AMI 2MB	SPI type
Wake On LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	Intel® 82574L, 10/100/1000Base-TX x 2	Intel® 82567V & Intel® 82583V, 10/100/1000Base-TX x 2	Realtek RTL 8111E, 10/100/1000Base-TX x 2
VGA/ LCD Controller	Intel® 945GSE	Intel® Atom™ D525/N455	Intel® Atom™ D2700/N2800/ N2600 integrated
Video Output	CRT, Dual LVDS LCDs	CRT, LVDS	CRT+LVDS, CRT+DVI, LVDS+DVI, LVDS+LVDS
Audio	2CH	2 CH	High definition audio interface
USB Port	USB2.0 x 6	USB2.0 x 7	USB2.0 x 6
Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 5 , RS-232/422/485 x 1	RS-232 x 5 , RS-232/422/485 x 1
Parallel Port	SPP/ECP/EPP x 1	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	SATA 1 x 1	SATA 2 x 2	SATA 2 x 1
FDD Interface	—	—	—
SSD	CompactFlash™	CompactFlash™	CFast™
Expansion Slot	Mini PCI, Mini Card	Mini Card x 1	Mini Card x 1
Power Requirement	+12V	+12V or +5V (optional)	+12V
Power Consumption (Typical)	Intel® Atom™ N270, DDR2 667 2 GB, 1.55A @ +12V	Intel® Atom™ D525, 1 GB DDR3, 1.29A@+12V	Intel® Atom™ D2700, DDR3 1333 4GB, 1.3A@+12V
Power Supply Type	AT/ATX	AT/ ATX	AT/ ATX
Dimension	5.75" x 4" (146mm x 101.6mm)	5.75" x 4" (146mm x 101.6mm)	5.75" x 4" (146mm x 101.6mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	70,000	66,000	—
Certification	CE/FCC	CE/FCC	CE/FCC
Note	—	Onboard 4/5/8-wire Resistive Touch Screen Controller	—
		WiTAS 1 (-20°C ~ 70°C)	

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Note: All specifications are subject to change without notice.

SubCompact Boards

Model	GENE-TC05	GENE-U15B
Application	Industrial Automation, Transportation, Defense & Government	Industrial Automation, Transportation, Defense & Government
Form Factor	3.5" SubCompact Board	3.5" SubCompact Board
CPU	Intel® Atom™ E680/E620	Intel® Atom™ Z530P/Z510P
CPU Frequency	Up to 1.6GHz	Up to 1.6GHz
Chipset	Intel® EG20T PCH	Intel® US15WP
Memory Type	Onboard DDR2 667/800	SODIMM DDR2 400/533
Max. Memory Capacity	1 GB	2 GB
BIOS	AMI 2MB	Award 2MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Realtek RTL8211CL& Intel® 82574L, 10/100/1000Base-TX x 2,	Intel® 82583V, 10/100/1000Base-TX x 1
VGA/ LCD Controller	Intel® Atom™ E680/E620	Intel® Atom™ Z530P/Z510P
Video Output	CRT or DVI (opitonal), LVDS	CRT, LVDS
Audio	2 CH	2 CH
USB Port	USB2.0 x 4	USB2.0 x 6
Serial Port	RS-232 x 5, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	—	—
HDD Interface	SATA 2 x 1	SATA 2 x 1
FDD Interface	—	—
SSD	CFast™	Onboard SST SSD
Expansion Slot	Mini Card x 2	Mini Card x 1
Power Requirement	+12V	+12V or +5V
Power Consumption (Typical)	Intel® Atom™ E680 1.6GHz, DDR2 1 GB 0.78A@+12V	Intel® Z530P 1.6GHz, DDR2 2 GB 0.71A@+12V
Power Supply Type	AT	AT/ATX
Dimension	5.75" x 4" (146mm x 101.6mm)	5.75" x 4" (146mm x 101.6mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	70,000
Certification	CE/FCC	CE/FCC
Note	Onboard 4/5/8-wire Resistive Touch Screen Controller, CAN Bus	Onboard 4/5/8-wire Resistive Touch Screen Controller

SubCompact Boards

Model	GENE-5315 Rev. A	GENE-5315 Rev. B
Application	Portable POS, Building/ Factory Automation, Compact Information System, Panel PC, Gaming Machine, Transportation, Medical Machine & KIOSK	Portable POS, Building/ Factory Automation, Compact Information System, Panel PC, Gaming Machine, Transportation, Medical Machine & KIOSK
Form Factor	3.5" SubCompact Board	3.5" SubCompact Board
CPU	Onboard AMD Geode™ LX 800	Onboard AMD Geode™ LX 800
CPU Frequency	500 MHz	500 MHz
Chipset	AMD Geode™ LX	AMD Geode™ LX
Memory Type	DDR333 (DDR400 optional), SODIMM x 1	DDR333 (DDR400 optional), SODIMM x 1
Max. Memory Capacity	1 GB	1 GB
BIOS	Award 1 MB	Award 1 MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Realtek RTL 8139DL, 10/100Base-TX x 2	Realtek RTL 8139DL, 10/100Base-TX x 2
VGA/ LCD Controller	AMD Geode™	AMD Geode™
Video Output	CRT, TTL LCD, LVDS LCD	CRT, TTL LCD, LVDS LCD
Audio	2CH	2CH
USB Port	USB2.0 x 4	USB2.0 x 4
Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 4 & TTL UART x 1, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	UDMA33 x 1	UDMA33 x 1
FDD Interface	FDD x 1	FDD x 1
SSD	CompactFlash™	CompactFlash™
Expansion Slot	Mini PCI, PC/104	Mini PCI
Power Requirement	+5V	+5V
Power Consumption (Typical)	AMD Geode™ LX 800 500 MHz, DDR400 1 GB 1.17A@+5V	AMD Geode™ LX 800 500 MHz, DDR400 1 GB 1.17A@+5V
Power Supply Type	AT/ ATX	AT/ ATX
Dimension	5.75" x 4" (146mm x 101.6mm)	5.75" x 4" (146mm x 101.6mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) -4°F ~ 158°F (-20°C ~ 70°C) for WiTAS 1	32°F ~ 140°F (0°C ~ 60°C) -4°F ~ 158°F (-20°C ~ 70°C) for WiTAS 1
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	90,000	90,000
Certification	CE/FCC	CE/FCC
Note	—	—

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Note: All specifications are subject to change without notice.

PC/104 Modules

Model	PFM-LNP	PFM-945C
Application	Military, Panel, Operator Terminal, Transportation, Aviation	Military, Panel, Operator Terminal, Transportation, Aviation
Form Factor	PC/104	PCI/104-Express
CPU	Onboard Intel® Atom™ N450	Onboard Intel® Atom™ N270
CPU Frequency	1.66 GHz	1.6 GHz
Chipset	Intel® Atom™ N450 + ICH8M	Intel® 945GSE + ICH7M
Memory Type	Onboard DDR2 Memory up to 1 GB	Onboard DDR2 400/533 Memory up to 1 GB
Max. Memory Capacity	1 GB	1 GB
BIOS	AMI - 4MB ROM	Award - 2 MB ROM
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82567V, 10/100/1000Base-TX,RJ-45 x 1	Intel® 82551ER, 10/100Base-TX, RJ-45 x 1
VGA/ LCD Controller	N450	Intel® 945GSE
Video Output	CRT, LVDS	CRT, LVDS
Audio	—	2CH
USB Port	USB2.0 x 4	USB2.0 x 4
Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	—	—
HDD Interface	SATA 1 x 1	SATA 1 x 1
FDD Interface	—	—
SSD	CompactFlash™	CompactFlash™
Expansion Slot	PCI-104, Mini Card	PCI/104-Express
Power Requirement	+12V	+12V
Power Consumption (Typical)	Intel® Atom™ N450 1.66 GHz, DDR2 667 1GB 1.3A@+12V	Atom™ N270 1.6 GHz, DDR2 533 1 GB 1.56A@12V
Power Supply Type	AT/ATX	AT/ATX
Dimension	3.55" x 3.77" (90mm x 96mm)	4.05" x 3.77" (102.8mm x 96mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	129,000	52,000
Certification	CE/FCC	CE/FCC
Note	18-bit LVDS	18-bit LVDS

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PC/104 Modules

Model	PFM-CVS	PFM-541I
Application	Industrial Control Box, Industrial Automation Transportation, test & Measurement Security, Defense & Government	Military, Panel, Operator Terminal, Transportation, Aviation
Form Factor	PC/104+	PC/104
CPU	Intel® Atom™ N2600 Processor	Onboard AMD Geode™ LX 800
CPU Frequency	1.6GHz	500 MHz
Chipset	Intel® Atom™ N2600 + NM10	AMD Geode™ LX 800 + CS5536
Memory Type	DDR3 SODIMM	Onboard DDR333 Memory up to 256 MB
Max. Memory Capacity	2GB	256 MB
BIOS	AMI 32MB	Award - 1 MB ROM
Wake On LAN	Yes	Yes
Watchdog Timer	255 Level	255 Levels
Ethernet	Intel® 82552V, 10/100Base-TX x 1	Intel® 82551ER, 10/100Base-TX, RJ-45 x 2
VGA/ LCD Controller	Intel® Atom™ N2600 Processor integrated	AMD Geode™ LX 800
Video Output	CRT+LVDS 18-bit single channel (20-pin) 1920 x 1200 Up to 400 MHz (VGA) 1440 x 900 @ 112 MHz (LVDS 18/24-bit)	CRT, TTL LCD
Audio	Buzzer x 1	—
USB Port	USB 2.0 x 4 (1.5 A for 2-port)	USB2.0 x 4
Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	—	SPP/EPP/ECP x 1
HDD Interface	SATA2 x 1	UDMA33 x 1
FDD Interface	—	—
SSD	—	CompactFlash™
Expansion Slot	PC/104+, Mini PCIe/ mSATA (switch by R)	PC/104
Power Requirement	+12V	+5V
Power Consumption (Typical)	—	AMD Geode™ LX 800 500 MHz, DDR333 256 MB, 1.83A@+5V
Power Supply Type	AT / ATX	AT
Dimension	3.55" x 3.77"(90mm x 96mm)	3.55" x 3.77" (90mm x 96mm)
Operating Temperature	-20°F ~ 158°F (-20°C ~ 70°C) -40°F ~ 176°F (-40°C ~ 80°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	90,000
Certification	CE/FCC Class A	CE/FCC
Note	Multi-display: CRT, 18-bit LVDS	Multi-display: CRT, TTL
		WiTAS 2 (-40°C ~ +80°C)

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Note: All specifications are subject to change without notice.

PC/104 Modules

Model	PFM-540I Rev. A	PFM-540I Rev. B	PFM-535S
Application	Military, Panel, Operator Terminal, Transportation, Aviation	Military, Panel, Operator Terminal, Transportation, Aviation	Military, Panel, Operator Terminal, Transportation, Aviation
Form Factor	PC/104	PC/104	PC/104
CPU	Onboard AMD Geode™ LX 800	Onboard AMD Geode™ LX 800	Onboard DMP Vortex86Sx SoC
CPU Frequency	500 MHz	500 MHz	300 MHz
Chipset	AMD Geode™ LX 800 + CS5536	AMD Geode™ LX 800 + CS5536	DM&P Vortex86Sx SoC
Memory Type	DDR333/400, SODIMM x 1	DDR333/400, SODIMM x 1, (512 MB for DDR400)	Onboard DDR2 Memory – 256 MB
Max. Memory Capacity	512MB	1 GB	256 MB
BIOS	Award 512 KB	Award 512 KB	AMI - 256 KB ROM
Wake On LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	Realtek RTL 8139DL, 10/100Base-TX x 1	Realtek RTL 8139DL, 10/100Base-TX x 1	Intel® 82551ER, 10/100Base-TX x 2, (One by internal LAN)
VGA/ LCD Controller	AMD Geode™ LX 800	AMD Geode™ LX 800	DMP Vortex86Sx SoC
Video Output	CRT, TTL LCD, LVDS LCD (Using PCM-3538T)	CRT, TTL LCD, LVDS LCD (Using PCM-3538T)	CRT, TTL LCD
Audio	—	—	—
USB Port	USB2.0 x 4	USB2.0 x 4	USB2.0 x 4
Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	UDMA33 x 1	UDMA33 x 1	UDMA33 x 1
FDD Interface	FDD x 1	FDD x 1	—
SSD	CompactFlash™	CompactFlash™	CompactFlash™
Expansion Slot	PC/104	PC/104	PC/104+
Power Requirement	+5V	+5V	+5V
Power Consumption (Typical)	AMD Geode™ LX 800 500 MHz, DDR400 512 MB, 1.53A@+5V	AMD Geode™ LX 800 500 MHz, DDR400 512 MB, 1.53A@+5V	DMP Vortex 86 Soc 300 MHz DDR2 256 MB 1.82A@+5V
Power Supply Type	AT	AT	AT
Dimension	3.55" x 3.77" (90mm x 96mm)	3.55" x 3.77" (90mm x 96mm)	3.55" x 3.77" (90mm x 96mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	100,000	100,000	129,000
Certification	CE/FCC	CE/FCC	CE/FCC
Note	18/24-bit TTL	18/24-bit TTL	24-bit TTL
		WiTAS 1 (-20°C ~ +70°C)	

Board Level Products

COM Express CPU Modules

Launching in Q2

Model	COM-QM77 Rev. A	COM-QM77 Rev. B	COM-QM57
Application	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Basic Module, Pin-out Type 6	COM Express, Basic Module, Pin-out Type 2	COM Express, Basic Module, Pin-out Type 2
CPU	Intel® Core™ i7/i5/i3/Celeron® (Socket-G2 based)	Onboard Intel® Core™ i7/i5	Onboard Intel® Core™ i7/i5
CPU Frequency	Up to 2.5GHz	Up to 2.4GHz	Up to 2.4GHz
Chipset	Intel® PCH QM77	Intel® PCH QM57	Intel® PCH QM57
Memory Type	DDR3 1066/1600, SODIMM x 2 Supports Dual Channel function	DDR3 800/1066, SODIMM x 2 Supports Dual Channel function	DDR3 800/1066, SODIMM x 2, Supports Dual Channel function
Max. Memory Capacity	16GB	8GB	8GB
BIOS	SPI type	SPI type	SPI type
Wake ON LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	Intel® 82579LM, Gigabit Ethernet	Intel® 82577LM, Gigabit Ethernet	Intel® 82577LM, Gigabit Ethernet
VGA/LCD Controller	Intel® Core™ i7/i5/i3/ Celeron® integrated	Intel® Core™ i7/i5/Celeron® integrated	Intel® Core™ i7/i5/Celeron® integrated
Video Output	CRT, LVDS LCD, DisplayPort, HDMI, DVI	CRT, LVDS LCD, DisplayPort, HDMI, DVI	CRT, LVDS LCD, DisplayPort, HDMI, DVI
Audio	High Definition Audio Interface	High Definition Audio Interface	High Definition Audio Interface
USB Port	USB2.0 x 4 + USB3.0 x 4	USB2.0 x 8	USB2.0 x 8
Serial Port	RS-232 x 2 (Tx/Rx)	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface	From LPC interface
HDD Interface	SATA 3 x 4	SATA 2 x 4	SATA 2 x 4
FDD Interface	From LPC interface	From LPC interface	From LPC interface
Expansion Slot	PCI-Express [x16] x 1, PCI-Express [x1] x 7 , LPC Bus x 1, SM Bus x 1 I2C x 1	PCI-Express [x16] x 1, PCI-Express [x1] x 6, 32-bit PCI x 4, LPC Bus x 1, SM Bus x 1, I2C x 1	PCI-Express [x16] x 1, PCI-Express [x1] x 6, 32-bit PCI x 4, LPC Bus x 1, SM Bus x 1, I2C x 1
Power Requirement	+12V	+12V	+12V
Power Consumption (Typical)	—	Intel® Core™ i5-520E 2.4GHz DDR3 800 1GB, 3.3A @+12V	Intel® Core™ i5-520E 2.4GHz DDR3 800 1GB, 3.3A @+12V
Power Supply Type	AT/ ATX	AT/ ATX	AT/ ATX
Dimension (L x W)	4.92" x 3.74" (125mm x 95mm)	4.92" x 3.74" (125mm x 95mm)	4.92" x 3.74" (125mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	—	—
Certification	—	CE/FCC	CE/FCC
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Note: All specifications are subject to change without notice.

COM Express CPU Modules

Model	COM-45SP	COM-45GS
Application	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Basic Module, Pin-out Type 2	COM Express, Basic Module, Pin-out Type 2
CPU	Intel® Core™ 2 Duo/ Celeron® M (Socket-P based, 35 x 35mm)	Intel® Core™ 2 Duo/ Celeron® M (SFF, 22x22 mm)
CPU Frequency	Up to 2.53 GHz/ FSB 1066 MHz	Up to 2.26 GHz/ FSB 1066 MHz
Chipset	Intel® GM45 + ICH9M	Intel® GS45 + ICH9M SFF
Memory Type	DDR3 800/1066, SODIMM x 2 Supports Dual Channel function	DDR3 800/1066, SODIMM x 2 Supports Dual Channel function
Max. Memory Capacity	8 GB	8 GB
BIOS	SPI type	SPI type
Wake ON LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82567LM, Gigabit Ethernet	Intel® 82567LM, Gigabit Ethernet
VGA/LCD Controller	Intel® GM45 integrated	Intel® GS45 integrated
Video Output	CRT/ LVDS LCD/ TV/ DisplayPort™/ HDMI/ DVI	CRT/ LVDS LCD/ TV/ DisplayPort™/ HDMI/ DVI
Audio	High Definition Audio Interface	High Definition Audio Interface
USB Port	USB2.0 x 8	USB2.0 x 8
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	SATA 2 x 4	PATA x 1 (One device), SATA 2 x 3
FDD Interface	From LPC interface	From LPC interface
Expansion Slot	PCI-Express [x16] x 1 PCI-Express [x1] x 5 32-bit PCI x 4, LPC Bus x 1 SM Bus x 1, I2C x 1	PCI-Express [x16] x 1 PCI-Express [x1] x 5 32-bit PCI x 4, LPC Bus x 1 SM Bus x 1, I2C x 1
Power Requirement	+8.5V ~ +19V (Optional) Nominal: +12V	+8.5V ~ +19V (Optional) Nominal: +12V
Power Consumption (Typical)	Intel® T9400 2.53 GHz, DDR3 1066 2 GB 3.94A@+12V, 0.38A@+5V (w/ECB-916M)	Intel® SP9300 2.26 GHz, DDR3 1066 4 GB 3A@+12V, 0.81A@+5V (w/ECB-916M)
Power Supply Type	AT/ ATX	AT/ ATX
Dimension (L x W)	4.92" x 3.74" (125mm x 95mm)	4.92" x 3.74" (125mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	85,000	85,000
Certification	CE/FCC	CE/FCC

Board Level Products

COM Express CPU Modules

Model	COM-CV Rev. B	COM-CV Rev. A
Application	Healthcare,Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare,Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Compact Module, Pin-out Type 6	COM Express, Compact Module, Pin-out Type 2
CPU	Onboard Intel® Atom™ D2700/N2600 Dual Core Processors up to 2.13GHz	Onboard Intel® Atom™ D2700/N2600 Dual Core Processors up to 2.13GHz
CPU Frequency	Up to 2.13GHz	Up to 2.13GHz
Chipset	Intel® NM10	Intel® NM10
Memory Type	DDR3 1066, SODIMM x 1	DDR3 1066, SODIMM x 1
Max. Memory Capacity	4 GB (64-bit OS)	4 GB (64-bit OS)
BIOS	SPI type	SPI type
Wake ON LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82583V, Gigabit Ethernet	Intel® 82583V, Gigabit Ethernet
VGA/LCD Controller	Intel® Atom™ D2700/N2600 Processor integrated	Intel® Atom™ D2700/N2600 Processor integrated
Video Output	CRT/ LVDS LCD/ DisplayPort™/ HDMI	CRT/ LVDS LCD
Audio	High definition audio interface	High definition audio interface
USB Port	USB2.0 x 8	USB2.0 x 8
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	SATA 2 x 2	SATA 2 x 4, PATA x 1
FDD Interface	From LPC interface	From LPC interface
SSD	—	—
Expansion Slot	PCI-Express [x1] x 4 LPC Bus x 1 SM Bus x 1	PCI-Express [x1] x 2 32-bit PCI x2 LPC Bus x 1 SM Bus x 1
Power Requirement	+12V	+12V
Power Consumption (Typical)	—	—
Power Supply Type	AT/ ATX	AT/ ATX
Dimension (L x W)	3.74" x 3.74" (95mm x 95mm)	3.74" x 3.74" (95mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	—
Certification	CE/FCC	CE/FCC

Note: All specifications are subject to change without notice.

COM Express CPU Modules

Model	COM-LN Rev. B	COM-LN Rev. A
Application	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare,Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Compact Module, Pin-out Type 2	COM Express, Compact Module, Pin-out Type 2
CPU	Onboard Intel® Atom™ D525	Onboard Intel® Atom™ N450/ D410/ D510
CPU Frequency	Up to 1.8GHz	1.66 GHz
Chipset	Intel® ICH8M	ICH8M
Memory Type	DDR3 667/800, SODIMM x 2	DDR2 533/667, SODIMM x 2
Max. Memory Capacity	4 GB	4 GB
BIOS	SPI type	SPI type
Wake ON LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82567V, Gigabit Ethernet	Intel® 82567V, Gigabit Ethernet
VGA/LCD Controller	Intel® Atom™ D525 Processor Integrated	Intel® Atom™ N450/ D410/ D510 integrated
Video Output	CRT/ LVDS LCD	CRT/ LVDS LCD
Audio	High Definition Audio Interface	High definition audio interface
USB Port	USB2.0 x 8	USB2.0 x 8
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	PATA x 1 (Two devices) SATA 2 x 3	PATA x 1 (Two devices) SATA 2 x 3
FDD Interface	From LPC interface	From LPC interface
Expansion Slot	PCI-Express [x1] x 5 (x 6: Optional) 32-bit PCI x 4 LPC Bus x 1 SM Bus x 1 I2C x 1	PCI-Express [x1] x 5 (x 6: Optional) 32-bit PCI x 4 LPC Bus x 1 SM Bus x 1 I2C x 1
Power Requirement	+8.5V ~ +19V (Optional) Nominal: +12V	+8.5V ~ +19V (Optional) Nominal: +12V
Power Consumption (Typical)	—	—
Power Supply Type	AT/ ATX	AT/ ATX
Dimension (L x W)	3.74" x 3.74" (95mm x 95mm)	3.74" x 3.74" (95mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	—
Certification	CE/FCC	CE/FCC

Board Level Products

COM Express CPU Modules

Model	COM-945GSE	COM-945
Application	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Compact Module, Pin-out Type 2	COM Express, Basic Module, Pin-out Type 2
CPU	Onboard Intel® Atom™ N270	Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M (Socket-M based)
CPU Frequency	1.6 GHz/ FSB 533 MHz	Up to 2.16 GHz/ FSB 667 MHz
Chipset	Intel® 945GSE + ICH7M	Intel® 945GME + ICH7M
Memory Type	DDR2 400/533, SODIMM x 1	DDR2 400/533/667, SODIMM x 1
Max. Memory Capacity	2 GB	2 GB
BIOS	SPI type	SPI type
Wake ON LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82574L, Gigabit Ethernet	Intel® 82573L, Gigabit Ethernet
VGA/LCD Controller	Intel® 945GSE integrated	Intel® 945GME integrated
Video Output	CRT/ LVDS LCD/ TV/ SDVO	CRT/ LVDS LCD/ TV
Audio	High Definition Audio Interface	High Definition Audio Interface
USB Port	USB2.0 x 8	USB2.0 x 8
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	PATA x 1 (Two devices) SATA 1 x 2	PATA x 1 (Two devices) SATA 1 x 2
FDD Interface	From LPC interface	From LPC interface
Expansion Slot	PCI-Express [x1] x 3 (82801 GBM) 32-bit PCI x 4, LPC Bus x 1, SM Bus x 1, I2C x 1	PCI-Express [x16] x 1 PCI-Express [x1] x 3 (Rev. A2.0) PCI-Express [x1] x 5 (Rev. A3.0) 32-bit PCI x 4, LPC Bus x 1, SM Bus x 1, I2C x 1
Power Requirement	+8.5V ~ +19V (Optional) Nominal: +12V	+8.5V ~ +19V (Optional) Nominal: +12V
Power Consumption (Typical)	Intel® Atom™ N270 1.6 GHz, DDR2 533 1GB 1.31A@+12V, 0.36A@+5V (w/ECB-916M)	Intel® T7400 2.16 GHz, DDR2 667 2 GB 3.97A@+12V, 0.82A@+5V (w/ECB-916M)
Power Supply Type	AT/ ATX	AT/ ATX
Dimension (L x W)	3.74" x 3.74" (95mm x 95mm)	4.92" x 3.74" (125mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	100,000	100,000
Certification	CE/FCC	CE/FCC

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Note: All specifications are subject to change without notice.

COM Express CPU Modules

Model	COM-TC	COM-U15
Application	Healthcare, Retail & Advertising,Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Compact Module, Pin-out Type 2	COM Express, Compact Module, Pin-out Type 2
CPU	Onboard Intel® Atom™ E680/E620 Processor	Onboard Intel® Atom™ Z530/Z510
CPU Frequency	Up to 1.6GHz	Z530: 1.6GHz/ FSB 533MHz Z510: 1.1GHz/ FSB 400MHz
Chipset	Intel® EG20T	Intel® System Controller Hub US15W
Memory Type	DDR2 800, onboard	DDR2 400/533, SODIMM x 1
Max. Memory Capacity	1 GB	2 GB
BIOS	SPI type	TSOP type
Wake ON LAN	Yes	—
Watchdog Timer	255 Levels	255 Levels
Ethernet	Realtek RTL8211CL, Gigabit Ethernet	Intel® 82574L, Gigabit Ethernet
VGA/LCD Controller	Intel® Atom™ E680/E620 processor integrated	Intel® System Controller Hub US15W integrated
Video Output	SDVO/LVDS	LVDS LCD/ SDVO
Audio	High definition audio interface	High Definition Audio Interface
USB Port	USB2.0 x 6, USB Host x 1	USB2.0 x 8
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	SATA SSD onboard (Master device), Max. 4 GB (optional) SATA 2 x 2 (one reserved for SATA SSD) PATA x 1	PATA SSD onboard (Master device), Max. 4 GB (optional), PATA x 1 (One device) or SATA 1 x 1
FDD Interface	—	From LPC interface
Expansion Slot	4-bit SDIO: Multiplexed with 8-bit GPIO pins PCI-Express [x1] x 2 LPC Bus x 1 SM Bus x 1	4-bit SDIO: Multiplexed with GPIO pins PCI-Express [x1] x 1 LPC Bus x 1 SM Bus x 1
Power Requirement	+12V	+8.5V ~ +19V (Optional) Nominal: +12V
Power Consumption (Typical)	Intel® Atom™ E620 0.6GHz, DDR2 800 1GB 0.53A@+12V	Intel® Atom™ Z530 1.6GHz, DDR2 667 2 GB 0.95A @ +19V 0.3A @ +19V S3 Mode (W/ ECB-951D)
Power Supply Type	AT/ ATX	AT/ ATX
Dimension (L x W)	3.74" x 3.74" (95mm x 95mm)	3.74" x 3.74" (95mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	100,000
Certification	CE/FCC	CE/FCC

Board Level Products

COM Express CPU Modules

Model	NanoCOM-LN	NanoCOM-TC
Application	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Ultra (Nano) Module, Pin-out Type 1	COM Express, Ultra (Nano) Module, Pin-out Type 10
CPU	Onboard Intel® Atom™ N455 (22x22mm)	Onboard Intel® Atom™ E680/E620 Processor
CPU Frequency	Up to 1.66GHz	Up to 1.6GHz
Chipset	Intel® ICH8M	Intel® EG20T
Memory Type	DDR3 667, onboard	DDR2 667/800, onboard
Max. Memory Capacity	1 GB	1 GB
BIOS	SPI type	SPI type
Wake ON LAN	Yes	Yes
Watchdog Timer	Fintek 75111	Fintek 75111
Ethernet	Intel® 82567V, Gigabit Ethernet	Realtek RTL8211CL, Gigabit Ethernet
VGA/LCD Controller	Intel® Atom™ N455 Processor Integrated	Intel® Atom™ E680/E620 processor integrated
Video Output	CRT/ LVDS LCD	SDVO/ LVDS LCD
Audio	High Definition Audio Interface	High Definition Audio Interface
USB Port	USB2.0 x 8	USB2.0 x 6, USB Host x 1
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	PATA SSD onboard (Master device), Max. 4 GB SATA 2 x 3	SATA SSD onboard (Master device), Max. 4 GB (optional) SATA 2 x 2 (one reserved for SATA SSD)
FDD Interface	—	—
Expansion Slot	PCI-Express [x1] x 5 LPC Bus x 1 SM Bus x 1, I2C x 1	4-bit SDIO: Multiplexed with 8-bit GPIO pins PCI-Express [x1] x 3 LPC Bus x 1, SM Bus x 1
Power Requirement	+4.75V to +14.7V (Optional) Nominal: +12V	+12V
Power Consumption (Typical)	Intel® Atom™ N455 1.66GHz, 0.81A @+12V	Intel® Atom™ E620 0.6GHz, DDR2 800 1GB 0.5A @+12V
Power Supply Type	AT/ ATX	AT/ ATX
Dimension (L x W)	3.31" x 2.17" (84mm x 55mm)	3.31" x 2.17" (84mm x 55mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	—
Certification	CE/FCC	CE/FCC
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Note: All specifications are subject to change without notice.

COM Express CPU Modules

Model	NanoCOM-U15 A2.0	NanoCOM-U15 A1.0
Application	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Healthcare, Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage
Form Factor	COM Express, Ultra (Nano) Module, Pin-out Type 1	COM Express, Ultra (Nano) Module, Pin-out Type 1
CPU	Onboard Intel® Atom™ Z530/Z510	Onboard Intel® Atom™ Z530/Z510
CPU Frequency	Z530: 1.6GHz/ FSB 533MHz Z510: 1.1GHz/ FSB 400MHz	Z530: 1.6 GHz/ FSB 533 MHz Z510: 1.1 GHz/ FSB 400 MHz
Chipset	Intel® System Controller Hub US15W	Intel® System Controller Hub US15W
Memory Type	DDR2 533, onboard	DDR2 533, onboard
Max. Memory Capacity	1 GB	1 GB
BIOS	TSOP type	TSOP type
Wake ON LAN	—	—
Watchdog Timer	255 Levels	255 Levels
Ethernet	Intel® 82574L, Gigabit Ethernet	Intel® 82574L, Gigabit Ethernet
VGA/LCD Controller	Intel® System Controller Hub US15W integrated	Intel® System Controller Hub US15W integrated
Video Output	LVDS LCD/ SDVO (on module)	LVDS LCD/ SDVO (on module)
Audio	High Definition Audio Interface	High Definition Audio Interface
USB Port	USB2.0 x 8	USB2.0 x 8
Serial Port	From LPC interface	From LPC interface
Parallel Port	From LPC interface	From LPC interface
HDD Interface	PATA SSD onboard (Master device), Max. 4 GB , SATA 1 x 1	PATA SSD onboard (Master device), Max. 4 GB, SATA 1 x 1
FDD Interface	From LPC interface	From LPC interface
Expansion Slot	4-bit SDIO: Multiplexed with GPIO pins PCI-Express [x1] x 1 LPC Bus x 1, SM Bus x 1	4-bit SDIO: Multiplexed with GPIO pins PCI-Express [x1] x 1, LPC Bus x 1 SM Bus x 1
Power Requirement	+4.75V to +14.7V (Optional) Nominal: +12V	+4.75V ~ +14.7V (Optional) Nominal: +12V
Power Consumption (Typical)	Intel® Atom™ Z530 1.6GHz, DDR2 533 512MB 0.96A @ +19V, 0.35A @ +19V S3 ModeV (W/ ECB-951D)	Intel® Atom™ Z530 1.6 GHz, DDR2 667 2 GB 0.96A@+12V, 0.35A@+5V (w/ ECB-951D), 1.9V S3 Mode (With ECB-951D)
Power Supply Type	AT/ ATX	AT/ ATX
Dimension (L x W)	3.31" x 2.17" (84mm x 55mm)	3.31" x 2.17" (84mm x 55mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	95,000	75,000
Certification	CE/FCC	CE/FCC
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Board Level Products

COM Carrier Boards

Model	ECB-916M Rev. B	ECB-916M Rev. A	ECB-917T
Form Factor	Micro-ATX	Micro-ATX	Mini-ITX
I/O Chipset	Winbond W83627DHG x 1	ITE IT8712 (Rev. A1.0) Winbond W83627HG (TF-ECB-916M-A21)	Winbond W83627DHG x 1
Ethernet Connector	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2
CRT/DVI Connector	DVI29 x 1 + DB15 x 1	DB15 x 1	DVI29x1 + DB15 x 1
LCD Connector	Hirose DF13 30P (LVDS) x 1	Hirose® DF13 30P (LVDS) x 1	Hirose DF13 30P (LVDS) x 1
Audio Connector	Audio jack x 3	Audio jack x 6	Audio jack x 3
COM Port Connector	RS-232 Port x 1 RS-232/422/485 Port x 1	D-Sub 9P x 1 10-pin (5x2) box header x 3 (Rev. A1.0) 10-pin (5x2) box header x 1 (TF-ECB-916M-A21)	RS-232 Port x 3 RS-232/422/485 Port x 1
LPT Port Connector	—	DB25 x 1	—
HDD Connector	—	40-pin (20x2) box header x 1	—
FDD Connector	—	34-pin (17x2) box header x 1	—
USB Connector	Type-A connector x 4 (USB3.0 reserved)	Type-A Connector x 4	Type-A connector x 4 (USB3.0 reserved) 5-pin Wafer x 2
Expansion Slot	PCI-Express [x1] slot x 1, PCI-Express [x16] slot x 1, PCI slot x 1, Mini Card slot x 1, Mini PCI slot x 1, ExpressCard slot x 1	PCI-Express [x16] slot x 1, PCI-Express [x1] slot x 1, ExpressCard slot x 1, Mini Card slot x 1, PCI slot x 1, Mini PCI slot x 1	PCI-Express [x16] slot x 1, PCI-Express [x4] slot x 1 (PCI-Express[x1] x 8 from Module), Mini Card slot x3
Power Consumption (Typical)	—	—	—
Power Supply Type	AT/ ATX	AT/ ATX	AT/ ATX
Dimension (L x W)	9.6" x 9.6"(243.84mm x 243.84mm)	9.6" x 9.6" (243.84mm x 243.84mm)	6.7" x 6.7" (170mm x 170mm)
MTBF (Hours)	—	50,000	—
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	95,000	—
Certification	CE/FCC	CE/FCC	—

Note: All specifications are subject to change without notice.

NanoCOM Carrier Board

Model	ECB-951D
Form Factor	—
I/O Chipset	ITE IT8513E
Ethernet Connector	RJ-45 x 1
CRT/DVI Connector	—
LCD Connector	Hirose DF13 30P (LVDS) x 1
Audio Connector	Audio jack x 2
COM Port Connector	D-Sub 9P x 1 10-pin (5x2) box header x 1
LPT Port Connector	—
HDD Connector	44-pin (22x2) box header x 1
FDD Connector	—
USB Connector	Type-A connector x 4 5-pin wafer x 2
Expansion Slot	PCI-Express [x1] slot x 1 (Optional) Mini Card slot x 1
Power Consumption (Typical)	—
Power Supply Type	+19V DC input, DC power jack x 1 Battery connector x 1 (7-pin wafer)
Dimension (L x W)	8" x 4.69" (203mm x 119mm)
MTBF (Hours)	90,000

Board Level Products

XTX CPU Modules

Launching in Q2

Model	XTX-CV	XTX-945	XTX-945GSE
Application	Healthcare,Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Mobile Devices, GPS, Measurement, Transportation, Weighting System	Mobile Devices, GPS, Measurement, Transportation, Weighting System
Form Factor	XTX Module	XTX	XTX
CPU	Onboard Intel® Atom™ D2700/N2600 Dual Core Processors up to 2.13GHz	Intel® (Socket-478M-based) Core™ 2 Duo/ Core™ Duo /Celeron® M	Onboard Intel® Atom™ N270
CPU Frequency	Up to 2.13GHz	Up to 2.0 GHz/ FSB 667 MHz	1.6 GHz/ FSB 533 MHz
Chipset	Intel® NM10	Intel® 945GME + ICH7M	Intel® 945GSE + ICH7M
Memory Type	DDR3 1066, SODIMM x 1	DDR2 400/533/667, SODIMM x 1	DDR2 400/533, SODIMM x 1
Max. Memory Capacity	4 GB (64-bit OS)	2 GB	2 GB
BIOS	SPI type	Award, TSOP Type, 2 MB	Award, SP1 Type, 2 MB
Wake On LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	Intel® 82583V, 10/100Base-TX	Intel® EP82562ET, 10/100Base-TX	Intel® EP82562ET, 10/100Base-TX
VGA/LCD Controller	Intel® Atom™ D2700/N2600 Processor integrated	Intel® 945GME integrated	Intel® 945GSE integrated
Video Output	CRT/ LVDS LCD	CRT, LVDS LCD, TV-out, SDVO	CRT, LVDS LCD, TV-out, SDVO
Audio	High definition audio interface	Realtek ALC655	Realtek ALC655
USB Port	USB2.0 x 6	USB2.0 x 6	USB2.0 x 6
Serial Port	2	COM 1/2	COM 1/2
Parallel Port	1	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	SATA x 3, PATA x 1	PATA x 1, SATA 2 x 2	PATA x 1, SATA 2 x 2
FDD Interface	—	—	—
SSD	SATA SSD (optinal)	—	—
Expansion Slot	PCI-Express [x1] x 4, 32-bit PCI x 4 LPC Bus x 1, SM Bus x 1	PCI-Express [x1] x 4, 32-bit PCI x 4 LPC interface x 1, SM Bus x 1 I2C x 1	PCI-Express [x1] x 4, 32-bit PCI x 4 LPC interface x 1,SM Bus x 1 I2C x 1
Power Requirement	+5V	+5V	+5V
Power Consumption (Typical)	—	Intel® Celeron® M 440 1.86 GHz, DDR2 667 512 MB 0.33A@+12V, 4.84A@+5V w/TF-ECB-910M-A10-01	Intel® Atom™ N270 1.6 GHz, DDR2 667 512 MB 0.44A@+12V, 2.6A@+5V w/TF-ECB-910M-A10-01
Power Supply Type	AT/ ATX	AT/ ATX	AT/ ATX
Dimension (L x W)	4.5" x 3.74" (114mm x 95mm)	4.5" x 3.74" (114mm x 95mm)	4.5" x 3.74" (114mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	100,000	104,000
Certification	CE/FCC	CE/FCC	CE/FCC

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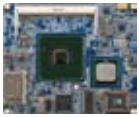
Note: All specifications are subject to change without notice.

XTX Carrier Board



Model	XTX-U15B
Application	Mobile Devices, GPS, Measurement, Transportation, Weighting System
Form Factor	XTX
CPU	Onboard Intel® Atom™ Z530P/Z510P processor
CPU Frequency	Z530P: 1.6 GHz/ FSB 533 MHz Z510P: 1.1 GHz/ FSB 400 MHz
Chipset	Intel® System Controller Hub US15W
Memory Type	DDR2 400/533, SODIMM x 1
Max. Memory Capacity	2 GB
BIOS	Award, PLCC Type, 2 MB
Wake On LAN	—
Watchdog Timer	255 Levels
Ethernet	Realtek RTL8139D, 10/100Base-TX
VGA/LCD Controller	Intel® System Controller Hub US15W integrated
Video Output	LVDS LCD, SDVO
Audio	Realtek AD1819B
USB Port	USB2.0 x 6
Serial Port	COM 1/2
Parallel Port	SPP/EPP/ECP x 1
HDD Interface	PATA x 1 (One device) or SATA 2 x 1
FDD Interface	—
SSD	PATA SSD onboard (Master device), Max. 16 GB
Expansion Slot	4-bit SDIO, PCI Express [x1] x 1 (x 4 optional), 32-bit PCI x 4, LPC Interface x 1, SM Bus x 1, I2C x 1
Power Requirement	+5V
Power Consumption (Typical)	Intel® Atom™ Z530 1.6 GHz, DDR2 667 2 GB 0.26A@+12V, 2.90A@+5V w/TF-ECB-910M-A10-01
Power Supply Type	AT/ ATX
Dimension (L x W)	4.5” x 3.74” (114mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	113,500
Certification	CE/FCC

Model	ECB-910M
Form Factor	Micro-ATX
I/O Chipset	ITE IT8712KX
Ethernet Connector	RJ-45 x 1
CRT Connector	DB15 x 1
LCD Connector	Hirose® DF-13 30P (LVDS) x 1
Audio Connector	Audio Jack x 3
COM Port Connector	D-Sub 9P x 1 10-pin (5 x 2) Box Header x 3
LPT Port Connector	DB25 x 1
HDD Connector	40-pin (20 x 2) Box Header x 1
FDD Connector	34-pin (17 x 2) Box Header x 1
USB Connector	Type-A Connector x 2 4-pin (4 x 1) wafer x 1
Expansion Slot	PCI-Express [x1] x 2 ExpressCard slot x 1 Mini Card slot x 1 PCI slot x 1 Mini PCI slot x 1 LPC Connector x 1
Power Requirement	+5V
Power Consumption (Typical)	—
Power Supply Type	AT/ ATX
Dimension (L x W)	9.6” x 9.6” (243.84mm x 243.84mm)
MTBF (Hours)	60,000

Board Level Products

ETX CPU Modules

Launching in Q2

Model	ETX-CV	ETX-LN	ETX-945GSE
Application	Healthcare,Retail & Advertising, Test & Measurement, Gaming & Entertainment, Industrial Automation, Security, Defense & Government, Digital Signage	Test & Measurement, Gaming & Enertainment, Industrial Automation, Military & Government, Security	Test & Measurement, Gaming & Enertainment, Industrial Automation, Military & Government, Security
Form Factor	ETX 3.0	ETX	ETX
CPU	Onboard Intel® Atom™ D2700/ N2600 Dual Core Processors up to 2.13GHz	Onboard Intel® Atom™ D525/ N455/D425	Onboard Intel® Atom™ N270 Processor
CPU Frequency	Up to 2.13GHz	Up to 1.8 GHz/ FSB	1.6 GHz/ FSB 533 MHz
Chipset	Intel® NM10	ICH8M	Intel® 945GSE + ICH7M
Memory Type	DDR3 1066, SODIMM x 1	DDR3 667/800, SODIMM x 1	DDR2 400/533, SODIMM x 1
Max. Memory Capacity	4 GB (64-bit OS)	2 GB	2 GB
BIOS	SPI type	AMI SPI Type, 4MB	Award SPI Type, 2MB
Wake On LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	Intel® 82583V, 10/100Base-TX	Realtek RTL8102E, 10/100Base-TX	Intel® EP82562ET, 10/100Base-TX
VGA/LCD Controller	Intel® Atom™ D2700/N2600 Processor integrated	Intel® D525/N455/D425 integrated	Intel® 945GSE integrated
Video Output	CRT/ LVDS LCD	CRT, LVDS LCD	CRT, LVDS LCD, TV-out, SDVO
Audio	High definition audio interface	Realtek ALC888	Realtek ALC655
USB Port	USB2.0 x 6	USB2.0 x 4	USB2.0 x 4
Serial Port	2	COM 1/2	COM 1/2
Parallel Port	1	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	SATA x 2, PATA x 1	PATA x 1, SATA 2 x 2	PATA x 1, SATA 2 x 2
FDD Interface	—	—	—
SSD	SATA SSD (optinal)	—	—
Expansion Slot	32-bit PCI x 4 8-bit/16-bit ISA LPC Bus x 1, SM Bus x 1	8-bit/16-bit ISA 32-bit PCI x 4 SM Bus x 1	8-bit/ 16-bit ISA 32-bit PCI x 4 SM Bus x 1, I2C x 1
Power Requirement	+5V	+5V	+5 V
Power Consumption (Typical)	—	Intel® Atom™ D525 1.8 GHz, DDR3 1066 4 GB, 3.42A@+5V	Intel® Atom™ N270 1.6 GHz, DDR2 667 2 GB, 0.22A@+12V, 2.21A@+5V W/ TF-ECB-902M-A10
Power Supply Type	AT/ ATX	AT/ ATX	AT/ ATX
Dimension (L x W)	3.74" x 3.74" (114mm x 95mm)	4.5" x 3.74" (114mm x 95mm)	4.5" x 3.74" (114mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	—	98,000
Certification	CE/FCC	CE/FCC	CE/FCC

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Note: All specifications are subject to change without notice.

ETX CPU Modules

Model	ETX-701	ETX-700
Application	Test & Measurement, Gaming & Entertainment, Industrial Automation, Military & Government,Security	Test & Measurement, Gaming & Entertainment, Industrial Automation, Military & Government, Security
Form Factor	ETX	ETX
CPU	Onboard AMD Geode™ LX 800	Onboard AMD Geode™ LX 800
CPU Frequency	LX800: 500 MHz	LX800: 500 MHz
Chipset	AMD Geode™ LX 800 + CS5536	AMD Geode™ LX 800 + CS5536
Memory Type	DDR333/400, DDR SODIMM x 1, DDR333: 1 GB, DDR400: 512 MB	DDR333/400, DDR SODIMM x 1
Max. Memory Capacity	1 GB	1 GB, DDR333: 1 GB, DDR400: 512 MB
BIOS	Award PLCC Type, 2MB	Award, PLCC Type, 2MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	Realtek RTL8139DL, 10/100Base-TX	Realtek RTL8139DL, 10/100Base-TX
VGA/LCD Controller	AMD Geode™ LX 800 processor integrated	AMD Geode™ LX 800 processor integrated
Video Output	CRT, LVDS LCD, TTL LCD	CRT, LVDS LCD, TTL LCD
Audio	Realtek ALC203	Realtek ALC203
USB Port	USB2.0 x 4	USB2.0 x 4
Serial Port	COM 1/2	COM 1/2
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	PATA x 2, SATA 1 x 2	PATA x 1
FDD Interface	—	—
SSD	CompactFlash™	CompactFlash™
Expansion Slot	8-bit/16-bit ISA, 32-bit PCI x 4 CompactFlash™ Type 1 slot x 1 SM Bus x 1, I2C x 1	8-bit/16-bit ISA, 32-bit PCI x 4 CompactFlash™ Type 1 slot x 1 SM Bus x 1, I2C x 1
Power Requirement	+5V	+5V
Power Consumption (Typical)	LX 800, DDR333 1 GB 0.25A@+12V, 2.02A@+5V W/ TF-ECB-901A-A10-01	LX 800, DDR333 1 GB 0.24A@+12V, 1.78A@+5V W/ TF-ECB-901A-A10-01
Power Supply Type	AT/ ATX	AT/ ATX
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	110,000	127,000
Dimension (L x W)	4.5" x 3.74" (114mm x 95mm)	4.5" x 3.74" (114 mm x 95 mm)
Certification	CE/FCC	CE/FCC

Board Level Products

ETX Carrier Board

Model	ECB-902M
Form Factor	ATX
I/O Chipset	Winbond W83977
Ethernet Connector	RJ-45 x 1
CRT Connector	DB15 x 1
LCD Connector	Hirose® DF-13 30P (LVDS) x 1
Audio Connector	Audio Jack x 3
COM Port Connector	D-Sub 9P x 1, 10-pin (5 x 2) Box Header x 3
LPT Port Connector	DB25 x 1 26-pin (13x2) Header x 1
HDD Connector	40-pin (20x2) Box Header x 2
FDD Connector	34-pin (17x2) Box Header x 1
USB Connector	Type-A Connector x 2 10-pin (5 x 2) Box Header x 1
Expansion Slot	PCI x 2 ISA x 2
Power Consumption (Typical)	—
Power Supply Type	AT/ ATX
Dimension (L x W)	12" x 8.27" (304.8mm x 210mm)
MTBF (Hours)	140,000

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Note: All specifications are subject to change without notice.

Qseven Modules

Model	AQ7-LN
Application	Test & Measurement, Gaming & Enertainment, Industrial Automation, Military & Government, Security
Form Factor	Qseven
CPU	Onboard Intel® Atom™ N450
CPU Frequency	1.66 GHz
Chipset	ICH8M
Memory Type	DDR2 667 for N450
Max. Memory Capacity	1 GB, onboard
BIOS	AMI, SPI Type, 4MB
Wake On LAN	Yes
Watchdog Timer	255 Levels
Ethernet	Intel® 82567V, Gigabit Ethernet
VGA/LCD Controller	Intel® Atom™ N450 integrated
Video Output	CRT/ LVDS LCD
Audio	High Definition Audio Interface
USB Port	USB2.0 x 8
Serial Port	From LPC interface
Parallel Port	From LPC interface
HDD Interface	PATA x 1, SATA 2 x 2
FDD Interface	—
SSD	Up to 4 GB
Expansion Slot	PCI-Express [x1] x 4 LPC Bus x 1 SM Bus x 1
Power Requirement	+5V
Power Consumption (Typical)	—
Power Supply Type	AT/ ATX
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—
Dimension (L x W)	2.76"x 2.76" (70mm x 70mm) 3.35" x 2.75" (85mm x 70mm) SSD
Certification	CE/FCC

Qseven Carrier Board

Model	ECB-930G
Form Factor	3.5" SubCompact Board
I/O Chipset	Winbond W83627DHG-P
Ethernet Connector	RJ-45 x 2
CRT Connector	DB15 x 1
LCD Connector	30P (LVDS) x 1
Audio Connector	14-pin (7x2) Header x 1
COM Port Connector	D-Sub 9P x 1, 9-pin (9 x 1) Box Header x 3
LPT Port Connector	—
HDD Connector	SATA Port x 1
FDD Connector	—
USB Connector	Type-A Connector x 2 5-pin (5 x 1) Box Header x 4
Expansion Slot	Mini Card x 1. CompactFlash™ x 1
Power Consumption (Typical)	—
Power Supply Type	+8.5V to +19V DC input, DC power jack x 1, Battery connector x 1 (7-pin wafer)
MTBF (Hours)	—
Dimension (L x W)	5.75" X 4" (146mm x 102mm)

Industrial & Embedded Motherboards

	Launching in Q2	Launching in Q2	Launching in Q2
Model	**EMB-QM77**	**EMB-CV1**	**EMB-H61A**
Application	Gaming Machine Industrial control automation Medical equipment Telecom Transportation	Gaming Machine Industrial control automation Medical equipment Telecom Transportation	Gaming Machine Industrial control automation Medical equipment Telecom Transportation
Dimension (L x W)	6.7" x 6.7" (170mm x 170mm)	6.7" x 6.7" (170mm x 170mm)	6.7"x 6.7" (170mm x 170mm)
Bus Interface	—	—	—
CPU	Socket 988B, Socket G2 Intel®Core™ i7/i5/ i3 processor up to 45W	Intel® Atom™ processor D2700 Dual Core 2.13GHz / N2600 Core 1.6 GHz	Intel® Socket 1155 for 3rd and 2nd Generation Core™ i5/ i3 Processor up to 35W
System Memory	Up to 16 GB (Two 204-pin Dual Channel DDR3 1066/1333/1600 MHz SODIMM)	Up to 4 GB (204-pin DDR3 800 /1066 SODIMM)	Up to 16GB (Two 204-pin Dual Channel DDR3 1066/1333 MHz SODIMM)
Chipset	Intel® QM77	Intel® NM10	Intel® H61(B3)
Ethernet	Intel® 10/100/1000Base-TX x 1 Realtek 10/100/1000Base-TX x 1	Intel® 10/100/1000Base-TX x 2	Realtek 10/100/1000Base-TX x 2
BIOS	AMI	AMI	AMI
Watchdog Timer	Yes	Yes	Yes
H/W Status Monitoring	Yes	Yes	Yes
LCD Controller	-	—	—
CRT Controller	Intel® QM77	Intel® NM10	Intel® H61(B3)
VGA Memory	256MB (Max.)	256MB (Max.)	256MB (Max.)
Display	VGA x 1, DVI x 1, HDMI x 1, LVDS x 1	VGA x 1, DVI x 1, LVDS x 1	—
Audio	Audio Jack x 3 (Mic-in/Line-in/ Line-out)	Audio Jack x 3 (Mic-in/Line-in/ Line-out)	Audio Jack x 3 (Mic-in/Line-in/ Line-out)
Serial Ports RS-232	1	4	5
Serial Ports RS-232/422/485	1	1	1
Parallel Port	—	—	—
Hard Disk Driver Interface	SATA2 x 2, SATA3 x 2	SATA2 x 2	SATA2 x 2
USB Port	USB2.0 x 6, USB3.0 x 4	USB2.0 x 6	USB2.0 x 8
Floppy Disk Driver Interface	—	—	—
SSD	CF-SATA Socket	—	CF-SATA Socket
Expansion Slot	PCI-E[x16], Mini PCIe	PCI-E [x1], Mini PCIe	PCI-E[x4], Mini PCIe
Special Feature	RAID	Digital I/O, LVDS	—
Certification	CE/FCC	CE/FCC	CE/FCC
Power Type	ATX 4-Pin / DC12V	ATX 4-Pin / DC12V	ATX 4-Pin / DC12V

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Note: All specifications are subject to change without notice.

Industrial & Embedded Motherboards

Model	EMB-QM67	EMB-A50M
Application	Industrial Automation, Entertainment, Networking, KIOSK/ POS, Transportation, Banking, Healthcare, Digital Signage	Industrial Automation, Entertainment, Transportation Healthcare, Digital Signage, Gaming
Form Factor	Mini-ITX	Mini-ITX motherboard
CPU	Intel® Socket G2 (rPGA988B) Core™ i7 / i5 / Celeron® QC / DC processors up to 45W Max	Onboard AMD eOntario T44R/56N Processor
CPU Frequency	Up to 2.1 GHz	Up to 1.6 GHz
Chipset	Intel® QM67	AMD® A50M
Memory Type	204-pin Dual Channel DDR3 1066/1333/1600 MHz SODIMM x 2	DDR3 1066/800 Non-ECC,Un-buffered Memory DIMM x 2
Max. Memory Capacity	up to 8GB	Up to 8GB
BIOS	AMI BIOS 64Mbit SPI ROM	32 Mb Flash ROM , AMI BIOS, PnP, DMI 2.0, WfM 2.0, ACPI 2.0a, SM BIOS 2.6
Wake On LAN	Yes	Yes
Watchdog Timer	System reset : 1~255 step programmable	System reset : 1~255 step programmable
Ethernet	Intel® PHY WG82579LN 10/100/1000Base-TX, RJ-45 x 1 Realtek ALC 8111E10/100/1000Base-TX, RJ-45 X1	Realtek® 8111E, Gigabit Ethernet, RJ-45 x 2
VGA/ LCD Controller	Intel® Core™ i7 / i5 / Celeron® integrated Gfx Gen 5.75 graphics	Integrated AMD Radeon HD 6250 graphics engine (HD 6310 for T56N)
Video Output	VGA x 1, DVI-D x 1, HDMI x 1, 24-bit dual channel LVDS x 1	DVI-D x 1, HDMI x 1
Audio	Audio Jack x3 (Mic-in, Line-in, Line-out)	Audio Jack x3 (Mic-in, Line-in, Line-out)
USB Port	USB 2.0 x 8 (four with pin headers, four with USB 3.0 connectors)	USB3.0 x 2, USB2.0 x 8
Serial Port	RS-232 x 5, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	—	—
HDD Interface	SATA 6.0 Gb/s (SATA 0, 1) x 2, SATA 3.0 Gb/s (SATA 2, 3) x 2	SATA 6.0 Gb/s support AHCI mode x 5
FDD Interface	—	—
SSD	SATA Interface	SATA Interface
Expansion Slot	PCI-E x 4 slot x 1, Mini PCIe socket x 1, CFast™ x 1 TPM Module(Optional) x 1	PCI Express 2.0 [x4] x 1, Mini PCIe socket x 1
Power Requirement	DC-12 V	Standard 24-pin ATX connector x 1 4-pin 12V ATX connector x 1 CPU fan x 1, System fan x 1
Power Consumption (Typical)	—	—
Power Supply Type	DC-12V	24-pin ATX
Dimension	6.7" x 6.7" (170 x 170 mm)	6.7" x 6.7" (170mm x 170mm)
Operating Temperature	32~140°F (0~60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4~158°F (-20~70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	5% ~ 95% relative humidity, non-condensing	5% ~ 95% relative humidity, non-condensing
MTBF (Hours)	—	—
Certification	CE & FCC Class A	CE & FCC Class A
Note	—	—
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Board Level Products

Industrial & Embedded Motherboards

Model	EMB-LN9T	EMB-LN8T	EMB-9658T
Application	Industrial Automation, Entertainment, Networking, KIOSK/POS, Transportation, Banking, Healthcare, Digital Signage	POS, KIOSK, Gaming, Digital Signage, Industrial Automation	Automation, Digital Signage, Medical Applications, Gaming, Entertainment
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX
CPU	Intel® Atom™ N455/ D525 processor	Onboard Intel® Atom™ N455/D525	Intel® Core™ 2 Duo/ Celeron® M (Socket-P based)
CPU Frequency	Up to 1.8 GHz	Up To 1.83ghz	Up to 2.2 GHz/FSB 800 MHz
Chipset	Intel® Atom™ D525/N455 + ICH8M	Intel® Atom™ D525/N455 + ICH8M	Intel® GME965 + ICH8M(-E)
Memory Type	204-pin SODIMM DDR3 800MHz memory x 1 (Optional for 2nd SODIMM)	DDR3 800, SODIMM x 2	DDR2 400/533/667, DIMM x 2
Max. Memory Capacity	4GB	4 GB	4 GB
BIOS	AMI Plug & Play BIOS – 4 MB ROM	AMI 8MB	Award SPI 2 MB
Wake On LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	RTL8102E, 10/100Base-TX x 2 or RTL8111C, 10/100/1000Base-TX x 2	10/100/1000Base-TX x 2, RTL8111E	10/100/1000Base-TX x 2, Intel® 82573L, 82566MM
VGA/ LCD Controller	Intel® Atom™ N455/D525 integrated VGA	Intel® Atom™ N455/D525 integrated VGA	Intel® GME965
Video Output	VGA x 1, DVI-D x 1, 18/24-bit dual channel LVDS x 1	CRT, LVDS 18/24 bit	CRT, LVDS, TV, DVI, SDVO
Audio	Audio Jack x 3	VIA-VT1708B, 2 CH	VIA VT1708B, HD 5.1CH
USB Port	USB2.0 x 8	USB2.0 x 8	USB2.0 x 8
Serial Port	RS-232 x 9, RS-232/422/485 x 1	RS-232 x 4, RS-232/422/485 x 2	RS-232 x 4, RS-232/422/485 x 1, TTL UART x 1
Parallel Port	Supports SPP/ EPP/ ECP mode	SPP/EPP/ECP	SPP/EPP/ECP x 1
HDD Interface	SATA x 2, Optional CompactFlash Type-II x 1	SATA 2 x 3, CompactFlash™ Type-II x 1	UDMA33 x 1, SATA 2 x 2
FDD Interface	—	—	—
SSD	SATA Interface	CompactFlash™	CompactFlash™
Expansion Slot	PCI , Mini PCI and Mini Card	Mini Card--top: full/half, bottom half	PCI, Mini PCI, PCI-E [x4] x 1
Power Requirement	+12V	+12V	+3.3V, +5V, +12V
Power Consumption (Typical)	—	—	T7500 2.2G DDR2 800 2 GB 3.81A@+12V
Power Supply Type	DC	DC	ATX, DC-12V
Dimension	6.7" x 6.7" (170 x 170 mm)	6.7" x 6.7" (170mm x 170mm)	6.7" x 6.7" (170mm x 170mm)
Operating Temperature	32~140°F (0~60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4~158°F (-20~70°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	5% ~ 95% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	—	54,000
Certification	CE & FCC Class A	CE/FCC	CE/FCC
Note	—	Extra Slim	Optional 2nd LVDS/ DVI, 6th RS-232, TPM

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Note: All specifications are subject to change without notice.

Industrial & Embedded Motherboards

Model	EMB-9459T Rev. A2.0	EMB-9459T Rev. A	EMB-9459T Rev. B
Application	Industrial Automation, Entertainment, Networking, KIOSK/POS, Transportation, Banking, Healthcare, Digital Signage	Industrial Automation, Entertainment, Networking, KIOSK/POS, Transportation, Banking, Healthcare, Digital Signage	Industrial Automation, Entertainment, Networking, KIOSK/POS, Transportation, Banking, Healthcare, Digital Signage
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX
CPU	Onboard Intel® N270	Onboard Intel® Atom™ N270	Onboard Intel® Atom™ N270
CPU Frequency	1.6GHz (N270)	1.6 GHz (N270)	1.6 GHz (N270)
Chipset	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M
Memory Type	DDR2 400/533, DIMM x 1	DDR2 400/533, DIMM x 1	DDR2 400/533, DIMM x 1
Max. Memory Capacity	2 GB	2 GB	2 GB
BIOS	Award 8MB	Award SPI 2 MB	Award SPI 2 MB
Wake On LAN	Yes	Yes	Yes
Watchdog Timer	255 Levels	255 Levels	255 Levels
Ethernet	RTL8102E, 10/100Base-TX x 2 or RTL8111C, 10/100/1000Base-TX x 2	RTL8111C, 10/100/1000Base-TX x 2	RTL8102E, 10/100Base-TX x 2 or RTL8111C, 10/100/1000Base-TX x 2
VGA/ LCD Controller	Intel® 945GSE	Intel® 945GSE	Intel® 945GSE
Video Output	CRT, LVDS, TV, 2nd LVDS or DVI	CRT, LVDS, TV, DVI or Optional 2nd LVDS through SDVO	CRT, LVDS, TV, 2nd LVDS or DVI
Audio	VIA-VT1708B, 5.1CH	VIA-VT1708B, 5.1CH	VIA-VT1708B, 5.1CH
USB Port	USB2.0 x 8	USB2.0 x 8	USB2.0 x 8
Serial Port	RS-232 x 5, RS-232/422/485 x 1	RS-232 x 5, RS-232/422/485 x 1	RS-232 x 5, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	UDMA-100 x 1, SATA 2 x 2	UDMA-100 x 1, SATA x 2	UDMA-100 x 1, SATA x 2
FDD Interface	—	—	—
SSD	CompactFlash™	CompactFlash™	CompactFlash™
Expansion Slot	PCI-E [x1] x 2 (optional), Mini PCI, Mini Card x 1	PCI, Mini PCI, PCI-E [x1] x 2 (Optional)	PCI, Mini PCI, PCI-E [x1] x 2 (Optional)
Power Requirement	+12V	+12V	+5V, +12V
Power Consumption (Typical)	1.3A@+12V	1.2A@+12V	0.65A@+12V, 1.02A@+5V
Power Supply Type	ATX	DC-12V	ATX
Dimension	6.7" x 6.7" (170mm x 170mm)	6.7" x 6.7" (170mm x 170mm)	6.7" x 6.7" (170mm x 170mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—	66,000	—
Certification	CE/FCC	CE/FCC	CE/FCC
Note	Onboard 2nd 18/24-bit LVDS, Fanless, Atom™	Optional 2nd LVDS, Fanless, Atom™	Optional 2nd LVDS, Fanless, Atom™

Industrial & Embedded Motherboards

Model	EMB-6908T	EMB-9458T
Application	Networking, Transportation, Banking, Medical Applications, Gaming, Entertainment	Networking, KIOSK/POS, Medical Applications, Gaming, Digital Signage
Form Factor	Mini-ITX	Mini-ITX
CPU	AMD Athlon™ 64/ Athlon™ 64 x 2 (AM2 socket) (Low-power version)	Socket-478M or onboard Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M
CPU Frequency	Up to 2.1 GHz	Up to 2.16 GHz
Chipset	AMD M690E + SB600	Intel® 945GME + ICH7M (DH optional for RAID)
Memory Type	DDR2 533/667/800, DIMM x 2	DDR2 400/533/667, DIMM x 2
Max. Memory Capacity	4 GB	4 GB
BIOS	Award 1 MB	Award 1 MB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	10/100/1000Base-TX x 2, Intel® 82573L	10/100/1000Base-TX x 2, Intel® 82573L
VGA/ LCD Controller	AMD M690E integrated	Intel® 945GME
Video Output	CRT, LVDS LCD, DVI	CRT, LVDS LCD, TV-out, DVI
Audio	VIA VT1708B, HD 5.1CH	Realtek ALC655, 5.1CH
USB Port	USB2.0 x 10	USB2.0 x 8
Serial Port	RS-232 x 5, RS-232/422/485 x 1	RS-232 x 4, TTL x 1, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	PATA x 1, SATA 2 x 4	UDMA33 x 1, SATA x 2
FDD Interface	—	—
SSD	CompactFlash™	CompactFlash™
Expansion Slot	Mini PCI, PCI, PCI-E [x1] x 2 (Optional)	Mini PCI, PCI, PCI-E [x1] x 2 (Optional)
Power Requirement	+3.3V, +5V, +12V	+3.3V, +5V, +12V
Power Consumption (Typical)	3400e 1.8 GHz, Dual Core, 1 GB DDR2 800) 2.92A@+12V, 2.25A @+5V	T7400 2.16 GHz, DDR2 800 2 GB 3.81A@+12V,
Power Supply Type	ATX, AT	ATX
Dimension	6.7" x 6.7" (170mm x 170mm)	6.7" x 6.7" (170mm x 170mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	54,000	60,000
Certification	CE/FCC	CE/FCC
Note	ECC memory optional, Extra Frame Buffer Graphics Memory, SATA x 4	Optional 2nd LVDS/DVI, TTL x 1 via serial, optional 6th RS-232

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Note: All specifications are subject to change without notice.

Industrial & Embedded Motherboards

Model	EMB-945T Rev. A	EMB-945T Rev. B
Application	Industrial Automation, Networking, KIOSK/POS, Transportation, Healthcare, Gaming	Industrial Automation, Networking, KIOSK/POS, Transportation, Healthcare, Gaming
Form Factor	Mini-ITX	Mini-ITX
CPU	Socket-478M or onboard Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M	Socket-478M or onboard Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M
CPU Frequency	Up to 2.16 GHz	Up to 2.16 GHz
Chipset	Intel® 945GM + ICH7M	Intel® 945GME + ICH7M
Memory Type	DDR2 400/533/667, SODIMM x 2	DDR2 400/533/667, SODIMM x 2
Max. Memory Capacity	4 GB	4 GB
BIOS	Award 512 KB	Award 512KB
Wake On LAN	Yes	Yes
Watchdog Timer	255 Levels	255 Levels
Ethernet	10/100/1000Base-TX x 1, Marvell® 88E8053	10/100/1000Base-TX x 1, Intel® 82573L
VGA/ LCD Controller	Intel® 945GM	Intel® 945GME
Video Output	CRT, LVDS LCD, TV-out, DVI	CRT, LVDS LCD, TV-out, DVI
Audio	Realtek ALC655, 5.1CH	Realtek ALC655, 5.1CH
USB Port	USB2.0 x 6	USB2.0 x 6
Serial Port	RS-232 x 5, RS-232/422/485 x 1	RS-232 x 5, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1	SPP/EPP/ECP x 1
HDD Interface	UDMA33 x 1, SATA x 2	UDMA33 x 1, SATA x 2
FDD Interface	—	—
SSD	CompactFlash™	CompactFlash™
Expansion Slot	Mini PCI, PCI, PCI-E [x1] x 1	Mini PCI, PCI, PCI-E [x1] x 2 (optional)
Power Requirement	+3.3V, +5V, +12V	+3.3V, +5V, +12V
Power Consumption (Typical)	T7400 2.16 GHz, DDR2 667 1 GB 2.59A@+12V, 2.88A@+5V, 0.6A@+3.3V	T7400 2.16 GHz, DDR2 667 1 GB 2.59A@+12V, 2.88A@+5V, 0.6A@+3.3V
Power Supply Type	ATX	ATX
Dimension	6.7" x 6.7" (170mm x 170mm)	6.7" x 6.7" (170mm x 170mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	70,000	70,000
Certification	CE/FCC	CE/FCC
Note	Onboard 18/24-bit Dual Channel LVDS	Onboard 18/24-bit Dual Channel LVDS

Board Level Products

Industrial & Embedded Motherboards

Model		IMBI-QM57	IMBI-Q57	IMBI-Q45
Application		Manufacture Automation, Auto Optical Inspection, Digital Signage	Manufacture Automation, Auto Optical Inspection, X-Ray Machine	Manufacture Automation, Auto Optical Inspection, X-Ray Machine
Dimension (L x W)		6.7" x 6.7" (170mm x 170mm)	6.7" x 6.7" (170mm x 170mm)	6.7" x 6.7" (170mm x 170mm)
Bus Interface		—	—	—
CPU		Intel® 32/45nm Core™ i7/i5 rPGA988 w/ Graphic, TDP: 35W max.	Intel® 32nm Core™ i5/i3 LGA1156 w/ Graphic, TDP 73W max. Intel® 45nm Core™ i7/i5 LGA1156 w/o Graphic, TDP 95W max.	Intel® Core™ 2 Duo/Quad LGA775, TDP 95W max.
System Memory		Up to 8 GB (DDR3 1066/800 MHz, SODIMM x 2)	Up to 8 GB (DDR3 1333/1066 MHz, DIMM x 2)	Up to 4 GB (DDR3 1066/800 MHz, DIMM x 2)
Chipset		Intel® QM57	Intel® Q57	Intel® Q45 + Intel® ICH10DO
Ethernet		10/100/1000Base-TX x 2	10/100/1000Base-TX x 2	10/100/1000Base-TX x 2
BIOS		AMI	AMI	Award
Watchdog Timer		System reset : 1~255 step programmable	System reset : 1~255 step programmable	System reset : 1~255 step programmable
H/W Status Monitoring		Yes	Yes	Yes
LCD Controller		—	—	—
CRT Controller		Intel® Core™ i7/i5 CPUs + QM57	Intel® Core™ i5/i3 CPUs + Q57	Intel® Q45
VGA Memory		256 MB	256 MB	256 MB
Display		VGA x 1, DVI/HDMI x 1	VGA x 1, DVI x 1	VGA x 1, DVI x 1
Audio		HDAC, Audio Jack x 3 (Mic-in, Line-in, Line-out)	HDAC, Audio Jack x 3 (Mic-in, Line-in, Line-out)	HDAC, Audio Jack x 3 (Mic-in, Line-in, Line-out)
Serial Ports	RS-232	3	1	2
	RS-232/422/485	1	1	—
Parallel Port		—	—	—
Hard Disk Drive Interface		SATA 2 x 3	SATA 2 x 4	SATA 2 x 3
USB Port		8	8	6
Floppy Disk Drive Interface		—	—	—
SSD		CompactFlash™	—	—
Expansion Slot		PCI-Express, PCI, Mini PCIe	PCI-Express, Customized Riser Card Optional	PCI-Express, PCI, Customized Riser Card Optional
Special Feature		GbE, RAID, AMT6.0	GbE, RAID, AMT6.0	GbE, RAID
Certification		CE/FCC	CE/FCC	CE/FCC
Power Requirement		ATX 2.1	ATX 2.1	ATX 2.1
Power Supply Type		ATX 24-Pin	ATX 24-Pin	ATX 24-Pin

Note: All specifications are subject to change without notice.

Industrial & Embedded Motherboards

		Launching in Q3	Launching in Q3	
Model		**IMBA-Q77**	**IMBA-H61A**	**IMBA-967**
Application		Factory Automation, Industrial Automation, Network Security	Factory Automation, Industrial Automation, Network Security	Factory Automation, Industrial Automation, Network Security
Dimension (L x W)		12"x 9.6"(305mm x 244mm)	12"x 9.6"(305mm x 244mm)	9.6" x 9.6" (244mm x 244mm)
Bus Interface		—	—	—
CPU		Intel® Core™ i7/i5/i3 LGA 1155 Processor	Intel® Core™ i7/i5/i3 LGA 1155 Processor	Intel® Socket 1155 Core™ i7/i5/i3 Processors
System Memory		Up to 32 GB (DDR3 1066/1333 DIMM x 4)	Up to 16 GB (two 240-pin Dual Channel DDR3 1066/1333MHz DIMM)	Up to 32 GB (DDR3 1066/1333 DIMM x 4)
Chipset		Intel® Q77	Intel® H61 (B3)	Intel® Q67
Ethernet		Intel® 10/100/1000Base-TX x 2	Realtek 10/100/1000Base-TX x 2	10/100/1000Base-TX x 2
BIOS		AMI	AMI	AMI
Watchdog Timer		Yes	Yes	System reset : 1~255 step programmable
H/W Status Monitoring		Yes	Yes	Yes
LCD Controller		—	—	—
CRT Controller		Intel® Q77	Intel® H61 (B3)	Intel® Q67
VGA Memory		32MB ~ 1024MB	64MB	256MB
Display		Three independent display: VGA on board x1, DVI-D x1, DisplayPort™ x 2 (HDMI optional x1)	VGA x 1, HDMI x 1, DVI-D x 1	DVI x 1. VGA x 1, HDMI x 1
Audio		Audio Jack x 3 (Mic-in/Line-in/ Line-out)	Audio Jack x 3 (Mic-in/Line-in/ Line-out)	Audio Jack x 3 (Mic-in, Line-in, Line-out)
Serial Ports	**RS-232**	5	5	5
	RS-232/422/485	1	1	1
Parallel Port		1	1	1
Hard Disk Drive Interface		SATA2 x 4, SATA3 x 2	SATA2 x 4, SATA3 x 2	SATA 2 x 4, SATA 3 x 2
USB Port		USB2.0 x 6, USB3.0 x 4	USB2.0 x 10	USB2.0 x 12
Floppy Disk Drive Interface		1	1	—
SSD		—	—	—
Expansion Slot		PCI, PCI-Express	PCI, PCI-Express	PCI, PCI-Express
Special Feature		AMT 8.0, RAID	RAID	AMT 7.0, RAID
Certification		CE/FCC	CE/FCC	CE/FCC
Power Type		ATX 2.1	ATX 2.1	ATX 2.1

Board Level Products

Industrial & Embedded Motherboards

Launching in Q2

Model	IMBM-Q77	IMBM-B75A	IMBM-935
Application	Factory Automation, Industrial Automation, Network Security	Factory Automation, Industrial Automation, Network Security	Factory Automation, Industrial Automation, Network Security
Dimension (L x W)	9.6"x 9.6"(244mm x 244mm)	9.6"x 9.6"(244mm x 244mm)	9.6" x 9.6" (244mm x 244mm)
Bus Interface	—	—	—
CPU	Intel® Core™ i7/i5/i3 LGA 1155 Processor	Intel® Core™ i7/i5/i3 LGA 1155 Processor	Intel® Core™ 2 Duo/ Quad LGA775 CPUs,FSB 800/1066/1333 MHz
System Memory	Up to 32 GB (DDR3 1066/1333 DIMM x 4)	Up to 16 GB (DDR3 1066/1333 DIMM x 2)	Up to 4 GB (DDR2 667/800 DIMM x 2)
Chipset	Intel® Q77	Intel® B75	Intel® Q35 + Intel® ICH9R
Ethernet	Intel® 10/100/1000Base-TX x 2	Realtek 10/100/1000Base-TX x 2	10/100Base-TX or 10/100/1000Base-TX x 2 (optional)
BIOS	AMI	AMI	Award
Watchdog Timer	Yes	Yes	System reset : 1~255 step programmable
H/W Status Monitoring	Yes	Yes	Yes
LCD Controller	—	—	—
CRT Controller	Intel® Q77	Intel® B75	Intel® Q35
VGA Memory	32MB ~ 1024MB	512MB	256 MB
Display	Three independent display: VGA x1, DisplayPort™ x 2 (HDMI optional x1)	VGA x 1, DVI-D x 1, DisplayPort™ x 2	VGA x 1
Audio	Audio Jack x 3 (Mic-in/Line-in/ Line-out)	Audio Jack x 3 (Mic-in/Line-in/ Line-out)	Audio Jack x 3 (Mic-in, Line-in, Line-out)
Serial Ports RS-232	3	—	3
Serial Ports RS-232/422/485	1	6	1
Parallel Port	1	1	1
Hard Disk Drive Interface	SATA2 x 2, SATA3 x 2	SATA2 x 5, SATA3 x 1	ATA100 x 1, SATA 2 x 5
USB Port	USB2.0 x 4, USB3.0 x 4	USB2.0 x 2, USB3.0 x 2	USB2.0 x 8
Floppy Disk Drive Interface	1	—	1
SSD	—	—	—
Expansion Slot	PCI, PCI-Express	PCI, PCI-Express	PCI, PCI-Express
Special Feature	AMT 8.0, RAID	AMT 8.0	GbE, RAID
Certification	CE/FCC	CE/FCC	CE/FCC
Power Type	ATX 2.1	ATX 2.1	ATX 2.1

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Note: All specifications are subject to change without notice.

Industrial & Embedded Motherboards

Model		IMBA-910	IMBA-880	IMBM-700
Application		Factory Automation, Industrial Automation, Network Security	Factory Automation, Industrial Automation, Network Security	Factory Automation, Industrial Automation, Network Security
Dimension (L x W)		12" x 9.6" (304.8mm x 244mm)	12" x 9.6" (304.8mm x 244mm)	9.6" x 9.6" (244mm x 244mm)
Bus Interface		—	—	—
CPU		Intel® Core™ 2 Duo, Pentium® 4 LGA775 CPUs, FSB: 533/800/1066 MHz	Intel® Core™ 2 Duo, Pentium® 4 LGA775 CPUs, FSB: 533/800/1066 MHz	VIA C7™/ Eden™, up to 2.0 GHz (FSB 400/800 MHz) Onboard C7™ 1.0 GHz (FSB 400 MHz)
System Memory		Up to 8 GB (DDR2 533/667/800 DIMM x 4)	Up to 4 GB (DDR2 533/667 DIMM x 4)	Up to 2 GB (DDR2 400/533 DIMM x 2)
Chipset		Intel® Q965 + Intel® ICH8	Intel® 945G + Intel® 82801GB ICH7	VIA CN700 + VT8237R
Ethernet		10/100Base-TX x 2 or 10/100/1000Base-TX x2 (optional)	10/100Base-TX x 1	10/100Base-TX x 1, 10/100/1000Base-TX x 1
BIOS		Award	Award	Award
Watchdog Timer		System reset : 1~255 step programmable	System reset : 1~255 step programmable	System reset : 1~255 step programmable
H/W Status Monitoring		Yes	Yes	Yes
LCD Controller		—	—	—
CRT Controller		Intel® Q965	Intel® 945G	Integrated UniChrome™ Pro graphics
VGA Memory		256 MB	224 MB	64 MB
Display		VGA x 1	VGA x 1	VGA x 1
Audio		1	1	1
Serial Ports	RS-232	1	1	3
	RS-232/422/485	1	1	1
Parallel Port		1	1	1
Hard Disk Drive Interface		ATA100 x 1, SATA 2 x 4	ATA100 x 1, SATA 2 x 4	ATA100 x 1, SATA 1 x 2
USB Port		USB2.0 x 8	USB2.0 x 8	USB2.0 x 8
Floppy Disk Drive Interface		1	1	1
SSD		CompactFlash™	—	CompactFlash™
Expansion Slot		PCI, PCI-Express	PCI, PCI-Express	PCI, ISA
Special Feature		GbE, RAID	AC97, RAID	GbE, RAID
Certification		CE/FCC	CE/FCC	CE/FCC
Power Type		ATX 2.1	ATX 2.1	ATX 2.1

RISC CPU Modules

Model	GENE-1270	GENE-1350
Application	Home Automation, Industrial Automation, Handheld Device, Vehicle PC, Advertising Machine	Home Automation, Industrial Automation, Handheld Device, Vehicle PC, Advertising Machine
Form Factor	3.5" SubCompact Board	3.5" SubCompact Board
CPU	Onboard Marvell® XScale PXA270	TI OMAP™ 3503/3530
CPU Frequency	520MHz	600 MHz
Chipset	—	—
Memory Type	LP DDR RAM onboard	LP DDR RAM onboard
Max. Memory Capacity	128 MB	256 MB
Boot Loader	Windows® CE5.0	Microsoft™ Windows® CE 6.0/ Linux 2.6.32/ Android 2.2
Watchdog Timer	255 Levels	255 Levels
Ethernet	10/100Base-TX x1, Davicom DM9000AEP	10/100Base-TX x 1, Davicom DM9000AEP
VGA/ LCD Controller	Marvell® PXA270	TI OMAP™ 3
Video Output	CRT, TTL LCD, LVDS LCD	CRT, TTL LCD, LVDS LCD
Audio	2 CH	2CH
USB Port	USB1.1 Host x 4, USB1.1 Client x 1	USB2.0 Host x 2, USB2.0 Client x 1
Serial Port	RS-232 x 1, RS-232/RS-485 x 1	RS-232 x 1, RS-232/422/485 x 1, TTL UART x 1
Parallel Port	—	—
HDD Interface	—	—
SSD	128MB Nand Flash, SD, CompactFlash™ II	256MB Nand Flash, SD, MicroSD
Expansion Slot	—	Mini Card x 2, Proprietary Expansion Slot x 1
Power Requirement	—	+9V ~ +24V
Power Consumption (Typical)	—	TI OMAP™ 3530, 128MB LP DDR, 0.24A@+12V
Dimension (L x W)	5.75" x 4" (146 x 101.6 mm)	5.75" x 4" (146 mm x 102 mm)
Operating Temperature	32°F ~ 158°F (0°C ~ 70°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0 %~90 % relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	100,000	100,000
Certification	CE/FCC	CE/FCC
Note	Ultra low power, Onboard touch screen controller	Ultra low power, Onboard touch screen controller

Note: All specifications are subject to change without notice.

Board Level Products

Full-size SBCs — PICMG 1.3 SBC

Launching in Q2

Model		FSB-Q77H New	FSB-G41H	FSB-960H
Application		Network Security, Factory Automation, Transportation/ITS, DVR/Surveillance, Telecom, Application Server	Network Security, Factory Automation, Machine Automation, Transportation/ ITS, DVR/Surveillance, Telecom, Application Server	Network Security, Factory Automation, Machine Automation, Transportation/ ITS, DVR/ Surveillance, Telecom, Application Server
Dimension (L x W)		13.3" x 5" (339 mm x 126 mm)	13.3" x 5" (339mm x 126mm)	13.3" x 5" (339mm x 126mm)
Bus Interface		PICMG 1.3	PICMG 1.3	PICMG 1.3
CPU		Intel® Core™ i7/i5/i3 LGA 1155 processor	Intel® Core™ 2 Extreme, Core™ 2 Quad, Core™ 2 Duo, Celeron® LGA 775, FSB 800/1066/1333 MHz	Intel® Core™ 2 Duo/ Core™ 2 Quad LGA775, FSB 800/1066/1333 MHz
System Memory		Up to 16 GB (DDR3 1066/1333 DIMM x 2)	Up to 4 GB (DDR3 1066/800 DIMM x 2, Double side DIMM)	Up to 4 GB (DDR2 667/800 DIMM x 2)
Chipset		Intel® Q77	Intel® G41+ ICH7R	Intel® Q35 + Intel® ICH9R (ICH9/ ICH9DO optional)
Ethernet		10/100/1000Base-TX x 2	10/100/1000Base-TX	10/100 or 10/100/1000Base-TX (optional)
BIOS		AMI	Award	Award
Watchdog Timer		Yes	Yes	Yes
H/W Status Monitoring		Yes	Yes	Yes
LCD Controller		—	—	—
CRT Controller		Intel® Q77	Intel® G41	Intel® Q35
Audio		HDAC Daughter Board, Mic-in/ Line-in/ Line-out/ CD-in	HDAC Daughter Board , Mic-in/ Line-in/ Line-out/ CD-in	High Definition Audio Codec, MIC-in/ Line-in/ Line-out/ CD-in
Serial Ports	RS-232	1	1	1
	RS-232/422/485	1	1	1
Parallel Port		1	1	1
Hard Disk Drive Interface		SATA 3 x 2, SATA 2 x 4	ATA100 x 1, SATA 2 x 4	ATA100 x 1, SATA 2 x 2
USB Port		USB 3.0 x 4, USB 2.0 x 4	USB2.0 x 7	USB2.0 x 11
Floppy Disk Drive Interface		Optional	1	1
SSD		CFast™ x 1	CompactFlash™	CompactFlash™
Expansion Slot		PCI x 4, PCI-Express [x4] x 1, PCI-Express [x16] x 1	PCI x 4, PCI-Express [x4] x 1, PCI-Express[x16] x 1	PCI x 4, PCI-Express [x4] x 1, PCI-Express [x16] x 1
Special Feature		GbE, RAID, AMT	GbE, RAID	GbE, RAID, AMT
Certification		CE/FCC	CE/FCC	CE/FCC
Power Type		ATX 2.1	ATX 2.1	ATX 2.1

Full-size SBCs — PICMG 1.0 SBC

Launching in Q3

Model		FSB-H61G New	FSB-868G
Application		Factory Automation, Network Security, Machine Automation, Transportaion/ITS, DVR/Surveillance, Telecom, Application Server	Factory Automation, Network Security, Machine Automation, Transportation/ ITS, DVR/ Surveillance, Telecom, Application Server
Dimension (L x W)		13.3" x 5" (339 mm x 126 mm)	13.3" x 4.8" (339mm x 122mm)
Bus Interface		PICMG 1.0	PICMG 1.0
CPU		Intel® 2nd Generation Core™ i3/i5/i7 32nm LGA 1155 Processor	Intel® Core™ 2 Duo/ Pentium® 4/ Celeron® D LGA 775, FSB: 533/ 800/ 1066 MHz
System Memory		Up to 16 GB (DDR3 1066/1333 DIMM x 2)	Up to 4 GB (DDR2 533/667 DIMM x 2)
Chipset		Intel® H61	Intel® 945G + Intel® 82801GB (ICH7/ ICH7R Optional)
Ethernet		10/100/1000Base-TX x 2	10/100 or 10/100/1000Base-TX (optional)
BIOS		AMI	Award
Watchdog Timer		Yes	Yes
H/W Status Monitoring		Yes	Yes
LCD Controller		—	Chrontel CH7308A
CRT Controller		Intel® H61	Intel® 945G
Audio		HDAC Daughter Board, Mic-in/ Line-in/ Line-out/ CD-in	AC97 Audio Codec, MIC-in/ Line-in/ Line-out/ CD-in
Serial Ports	RS-232	1	1
	RS-232/422/485	1	1
Parallel Port		1	1
Hard Disk Drive Interface		SATA 2 x 3	ATA100 x 1, SATA 2 x 4
USB Port		USB2.0 x 7	USB2.0 x 7
Floppy Disk Drive Interface		Optional	1
SSD		CFast™ x 1 (Optional)	CompactFlash™
Expansion Slot		PCI/ ISA	PCI/ ISA
Special Feature		GbE	AC97, GbE, RAID, LVDS
Certification		CE/FCC	CE/FCC
Power Type		ATX 2.1	ATX 2.1

Note: All specifications are subject to change without notice.

Full-size SBCs — PICMG 1.0 SBC

Model		FSB-945G	FSB-860B
Application		Network Security, Factory Automation, Machine Automation, Transportation/ ITS, DVR/ Surveillance, Telecom, Application Server	Factory Automation, Network Security, Machine Automation, Transportation/ ITS, DVR/ Surveillance, Telecom, Application Server
Dimension (L x W)		13.3" x 5" (339mm x 126mm)	13.3" x 4.8" (339mm x 122mm)
Bus Interface		PICMG 1.0	PICMG 1.0
CPU		Intel® Core™ 2 Duo/ Pentium® 4/Celeron® D LGA775 with 115W, FSB 533/800 MHz (E4000, E2000, 600, 500, 300 series)	Intel® Pentium® 4/ Celeron®, Socket 478 FSB: 400/533 MHz
System Memory		Up to 4 GB (DDR2 400/533/667 DIMM x 2)	Up to 2 GB (DDR 226/333 DIMM x 2)
Chipset		Intel® 945GC + Intel® ICH7	Intel® 845GV + Intel® 82801DB (ICH4)
Ethernet		10/100Base-TX or 10/100/1000Base-TX optional	10/100 or 10/100/1000Base-TX (optional)
BIOS		Award	Award
Watchdog Timer		Yes	Yes
H/W Status Monitoring		Yes	Yes
LCD Controller		—	—
CRT Controller		Intel® 945GC	Intel® 845GV
Audio		AC97 Audio Codec, MIC-in/ Line-in/ Line-out/ CD-in	AC97 Audio Codec, MIC-in/Line-in/Line-out/CD-in
Serial Ports	RS-232	1	1
	RS-232/422/485	1	1
Parallel Port		1	1
Hard Disk Drive Interface		SATA to IDE x 1, SATA 2 x 4	ATA100 x 2
USB Port		USB2.0 x 7	USB2.0 x 5
Floppy Disk Drive Interface		1	1
SSD		—	CompactFlash™
Expansion Slot		PCI/ ISA	PCI/ ISA
Special Feature		—	AC97, GbE
Certification		CE/FCC	CE/FCC
Power Type		ATX 2.1	ATX 2.1

Board Level Products

Half-size SBCs — PCI

Model		HSB-CV1P	HSB-965P
Application		Industry Automation, Factory Automation, Transportation, Banking Machine, ITS, HMI, Workstation	Industry Automation, Factory Automation, Control Box, Transportation, Banking Machine, ITS, HMI, Workstation
Dimension (L x W)		7.3" x 4.8" (185mm x 122mm)	7.3" x 4.8" (185mm x 122mm)
Bus Interface		PCI	PCI
CPU		Onboard Intel® Atom™ D2700 / N2600	Intel® (Socket 478-based) Core™ 2 Duo, FSB 533/667/800 MHz
System Memory		DDR3 800 / 1066 SODIMM x 2, max. 4GB	Up to 4 GB (DDR2 533/667 SODIMM)
Chipset		Intel® NM10	Intel® GME965 + Intel® ICH8M
Ethernet		Realtek 10/100/1000Base-TX x 2	10/100/1000Base-TX x 1 or x 2
BIOS		AMI	Award
Watchdog Timer		Yes	Yes
H/W Status Monitoring		Yes	Yes
LCD Controller		—	Intel® GME965
CRT Controller		Intel® NM10	Intel® GME965
VGA Memory		Yes	256M
Audio		3	Yes
Serial Ports	RS-232	1	3
	RS-232/422/485	1	1
Parallel Port		SATA2 x 2	1
Hard Disk Drive Interface		USB2.0 x 7	ATA100 x 1, SATA 2 x 3
USB Port		—	USB2.0 x 7
Floppy Disk Drive Interface		CompactFlash™	1
SSD		Supports 4 Master PCI slot by backplane	CompactFlash™
Expansion Slot		HD codec audio daughter board (optional), VGA x 1, LVDS x 1	—
Special Feature		CE/FCC	Digital I/O, HD Codec Audio Board Optional, LVDS
Certification		—	CE/FCC
Power Type		ATX 2.1 (+12V)	ATX 2.1

Note: All specifications are subject to change without notice.

Half-size SBCs — PCI

Model		HSB-945P	HSB-800P
Application		Industry Automation, Factory Automation, Transportation, Banking Machine, ITS, HMI, Workstation	Industry Automation, Factory Automation, Transportation, Banking Machine, ITS, HMI, Workstation,
Dimension (L x W)		7.3" x 4.8" (185mm x 122mm)	7.3" x 4.8" (185mm x 122mm)
Bus Interface		PCI	PCI
CPU		Onboard Intel® Atom™ N270 1.6 GHz	Onboard AMD Geode™ LX800
System Memory		Up to 1GB (DDR2 400/533 SODIMM)	Onboard 256 MB (DDR400)
Chipset		Intel® 945GSE + Intel® ICH7M	AMD Geode™ LX800 + CS5536
Ethernet		10/100Base-TX x 1, 10/100/1000Base-TX x 1	10/100Base-TX x 1
BIOS		Award	Award
Watchdog Timer		Yes	Yes
H/W Status Monitoring		Yes	Yes
LCD Controller		Intel® 945GSE	AMD Geode™ LX800
CRT Controller		Intel® 945GSE	AMD Geode™ LX800
VGA Memory		256M	16M
Audio		Yes	Yes
Serial Ports	RS-232	3	3
	RS-232/422/485	1	1
Parallel Port		1	1
Hard Disk Drive Interface		ATA100 x 1, SATA 2 x 2	ATA33 x 1, SATA 1 x 2
USB Port		USB2.0 x 5	USB2.0 x 4
Floppy Disk Drive Interface		1	1
SSD		CompactFlash™	CompactFlash™
Expansion Slot		—	—
Special Feature		GbE, AC97 Audio Board optional, LVDS, DVI, VGA	AC97 Audio Board optional, LVDS
Certification		CE/FCC	CE/FCC
Power Type		+5V, +12V operation	ATX 2.1

Board Level Products

Half-size SBCs — ISA

Model	HSB-525I New	HSB-910I	HSB-800I
Application	Industry Automation, Factory Automation, Control Box, Transportation, Banking Machine, ITS, HMI, Workstation	Industry Automation, Factory Automation, Control Box, Transportation, Banking Machine, ITS, HMI, Workstation	Industry Automation, Factory Automation, Control Box, Transportation, Banking Machine, ITS, HMI, Workstation
Dimension (L x W)	7.3"x 4.8" (185mm x 122mm)	7.3" x 4.8" (185mm x 122mm)	7.3" x 4.8" (185mm x 122mm)
Bus Interface	ISA	ISA	ISA
CPU	Intel® Atom™ D525/D425	Intel® Pentium® M/ Celeron® M for Socket Type, FSB: 400 MHz, Onboard 600 MHz/ 512 Cache	Onboard AMD Geode™ LX800
System Memory	Up to 4 GB (DDR2 SODIMM 533/667)	Up to 2 GB (DDR2 400 SODIMM)	Onboard 128 MB (DDR400)
Chipset	Intel® Atom™ N450/D410/D510 + ICH8M	Intel® 910GMLE + Intel® ICH6M	AMD Geode™ LX800 + CS 5536
Ethernet	10/100/1000Base-TX x 2	10/100/1000Base-TX x 1 or x 2	10/100 or 10/100/1000Base-TX (optional)
BIOS	Award	Award	Award
Watchdog Timer	Yes	Yes	Yes
H/W Status Monitoring	Yes	Yes	Yes
LCD Controller	Intel® Atom™ D525/D425 integrated VGA	Intel® 910GMLE	AMD Geode™ LX800
CRT Controller	Intel® Atom™ D525/D425 integrated VGA	Intel® 910GMLE	AMD Geode™ LX800
VGA Memory	324MB with DVMT4.0	256M	16M
Audio	Yes	Yes	Yes
Serial Ports RS-232	1	3	3
Serial Ports RS-232/422/485	1	1	1
Parallel Port	1	1	1
Hard Disk Drive Interface	ATA100 x 1, SATA 2 x 3	ATA100 x 1, SATA 1 x 2	ATA33 x 1
USB Port	USB2.0 x 5	USB2.0 x 5	USB2.0 x 4
Floppy Disk Drive Interface	1	1	1
SSD	CompactFlash™	CompactFlash™	CompactFlash™
Expansion Slot	—	—	ISA, PC/104
Special Feature	Digital I/O, AC97 Audio Board Optional, LVDS	Digital I/O, AC97 Audio Board Optional, LVDS	AC97, GbE, PC-104, Digital I/O
Certification	CE/FCC	CE/FCC	CE/FCC
Power Type	+5V, +12V operation	+5V , +12V operation	+5V , +12V operation

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Note: All specifications are subject to change without notice.

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System Level Products

Industrial HMI Touch Panel Solutions

Model		AHP-1152 New	AHP-1122 New
Application		Factory Automation, Home Automation, HMI	Factory Automation, Home Automation, HMI
Display	Size/ Type	15" TFT LCD	12.1" TFT LCD
	Max. Resolution	1024 x 768	1024 x 768
	Max. Colors	262K	262K
	Dot Size (mm)	HTT: 0.297 x 0.297 STT: 0.297 x 0.297	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240
	Luminance (cd/m²) (TYP)	HTT: 250 STT: 800	HTT: 500 STT: 1000
	Viewing Angle	HTT: 170°(H)/160°(V), STT: 160°(H)/140°(V)	HTT: 160°(H)/160°(V), STT: 160°(H)/140°(V)
	Back Light MTBF (Hours)	HTT: 30,000 STT: 60.000	HTT: 50,000 STT: 60,000
CPU		Intel® Atom™ D510	Intel® Atom™ D510
Memory		DDR2 SODIMM x 1, Max. 2GB	DDR2 SODIMM x 1, Max. 2GB
LCD/CRT Controller		Integrated graphics in Intel® D510	Integrated graphics in Intel® D510
Storage Disk Drive		2.5" Hard Disk Drive bay, Internal Type CompactFlash™	2.5" Hard Disk Drive bay, Internal Type CompactFlash™
I/O Port	Network (LAN)	10/100/1000Base-TX, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2
	Serial Port	RS-232 x 2, RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1
	Parallel Port	—	—
	Keyboard/ Mouse	—	—
	USB Connector	USB2.0 x 4	USB2.0 x 4
	Audio	—	—
	Digital	—	—
Touch Screen		5-wire resistive	5-wire resistive
Expansion Slot		Mini-Card x 2	Mini-Card x 2
Power Supply		12V DC input	12V DC input
Operating Temperature		32°F ~ 122°F (0°C ~ 50°C)	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Front Panel Protection		IP-65	IP-65
Certification		CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		16" x 12.2" x 2.56" (407mm x 310.5mm x 65mm)	12.5" x 9.57" x 2.5" (317mm x 243mm x 64mm)
Gross Weight		11.9 lb (5.4 Kg)	9.3 lb (4.2 Kg)
Net Weight		9.7 lb (4.4 Kg)	7 lb (3.2 Kg)
Mounting		VESA 75 /100, Panel	VESA 75, Panel

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Note: All specifications are subject to change without notice.

System Level Products

Industrial HMI Touch Panel Solutions

Model		AHP-1081 New	AHP-1070 New
Application		Factory Automation, Home Automation, HMI	Factory Automation, Home Automation, HMI
Display	Size/ Type	8.4" TFT LCD	7" TFT-LCD
	Max. Resolution	800 x 600	800x480
	Max. Colors	16.2M	262K
	Dot Size (mm)	0.213 x 0.213	0.1905 x 0.1905
	Luminance (cd/m²) (TYP)	450	300
	Viewing Angle	160°(H)/140°(V)	140°(H)/120°(V)
	Back Light MTBF (Hours)	50,000	30,000
CPU		Intel® Atom™ N270	TI OMAP 600MHz
Memory		DDR2 SODIMM x 1, Max. 2GB	LP DDR 128MB
LCD/CRT Controller		Integrated graphics in Intel® 945GSE	Integrated in TI processor
Storage Disk Drive		2.5" Hard Disk Drive bay, Internal Type CompactFlash™	256MB NAND Flash/ SD card x 1
I/O Port	Network (LAN)	10/100/1000Base-TX, RJ-45 x 2	10/100Base-TX ,RJ-45 x 1
	Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1
	Parallel Port	—	—
	Keyboard/ Mouse	PS/2 interface	—
	USB Connector	USB2.0 x 2	USB2.0 x 2 ,USB Clinet x 1
	Audio	—	One speaker
	Digital	—	—
Touch Screen		5-wire resistive	5-wire resistive
Expansion Slot		Mini-PCI x1	Mini-Card x 1 (USB interface only)
Power Supply		12V DC input	12V DC input
Operating Temperature		32°F ~ 122°F (0°C ~ 50°C)	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Front Panel Protection		IP-65	IP-65
Certification		CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		9.65" x 7.2" x 1.97" (245mm x 183mm x 50mm)	8.8" x 6.14" x 1.77" (225mm x 156mm x 45mm)
Gross Weight		4.41 lb (2 Kg)	4.41 lb (2 Kg)
Net Weight		3.31 lb (1.5 Kg)	1.54 lb (0.7 Kg)
Mounting		VESA 75, Panel	VESA 75, Panel

System Level Products

Rugged HMI Touch Panel Solutions

Model		AHP-2176 New	AHP-2153 New	AHP-2122 New
Application		Harsh Environment, Steel Factory, Oil Pipe Monitoring	Harsh Environment, Steel Factory, Oil Pipe Monitoring	Harsh Environment, Steel Factory, Oil Pipe Monitoring
Display	Size/ Type	17" TFT-LCD	15" TFT LCD	12.1" TFT LCD
	Max. Resolution	1280 x 1024	1024 x 768	1024 x 768
	Max. Colors	16.7M	16.7M	262K
	Dot Size (mm)	0.264 x 0.264	HTT: 0.297 x 0.297 STT: 0.297 x 0.297	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240
	Luminance (cd/m²) (TYP)	380	HTT: 400 STT: 800	HTT: 500 STT: 1000
	Viewing Angle	170°(H)/160°(V)	HTT: 170°(H)/160°(V) STT: 160°(H)/140°(V)	HTT: 160°(H)/160°(V) STT: 160°(H)/140°(V)
	Back Light MTBF (Hours)	50,000	HTT: 50,000 STT: 60,000	HTT: 50,000 STT: 60,000
CPU		Intel® Atom™ N270	Intel® Atom™ D510	Intel® Atom™ D510
Memory		DDR2 SODIMM x 1, Max. 2 GB	DDR2 SODIMM x 1, Max. 2 GB	DDR2 SODIMM x 1, Max. 2 GB
LCD/CRT Controller		Integrated graphics in Intel® 945GSE	Integrated graphics in Intel® Atom™ D510	Integrated graphics in Intel® Atom™ D510
Storage Disk Drive		2.5" Hard Disk Drive bay, Internal Type CompactFlash™	2.5" Hard Disk Drive bay, Internal Type CompactFlash™	2.5" Hard Disk Drive bay, Internal Type CompactFlash™
I/O Port	Network (LAN)	10/100/1000Base-TX, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2
	Serial Port	RS-232 x 2, RS-232/422/485 x 1	RS-232 x 2, RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1
	Parallel Port	—	—	—
	Keyboard/ Mouse	—	—	—
	USB Connector	USB2.0 x 6 (2 on front; 4 on rear)	USB2.0 x 6 (2 on front; 4 on rear)	USB2.0 x 4 (2 on front; 2 on rear)
	Audio	Line-out x 1	Line-out x 1	Line-out x 1
	Digital	VGA	VGA	VGA
Touch Screen		5-wire resistive	5-wire resistive	5-wire resistive
Expansion Slot		Mini-PCI x 1	Mini-Card x 2	—
Power Supply		9~30V DC input : Over-voltage protection, Low-voltage protection, Reverse protection	9~30V DC input : Over-voltage protection, Low-voltage protection, Reverse protection	9~30V DC input : Over-voltage protection, Low-voltage protection, Reverse protection
Operating Temperature		32°F ~ 113°F (0°C ~ 45°C)	-4°F ~ 131°F (-20°C ~ 55°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Front Panel Protection		IP-65	IP-65	IP-65
Certification		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		—	—	—
Gross Weight		—	—	—
Net Weight		—	—	—
Mounting		Panel/ VESA 75 & 100/ Dasktop/ Rack	Panel/ VESA 75 & 100/ Dasktop	Panel/ VESA 75 & 100/ Dasktop

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Note: All specifications are subject to change without notice.

System Level Products

Rugged Expandable Touch Panel Solutions

Model		AGP-3175 New	AGP-3155 New	AGP-3125 New
Application		Factory Control Center, Railway Control Center	Factory Control Center, Railway Control Center	Factory Control Center, Railway Control Center
Display	Size/ Type	17" TFT-LCD	15" TFT LCD	12.1" TFT LCD
	Max. Resolution	1280 x 1024	1024 x 768	1024 x 768
	Max. Colors	16.7M	16.7M	262K
	Dot Size (mm)	0.264 x 0.264	HTT: 0.297 x 0.297 STT: 0.297 x 0.297	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240
	Luminance (cd/m²) (TYP)	380	HTT: 250 STT: 800	HTT: 500 STT: 1000
	Viewing Angle	170°(H)/160°(V)	HTT: 170°(H)/160°(V) STT: 160°(H)/140°(V)	HTT: 160°(H)/160°(V) STT: 160°(H)/140°(V)
	Back Light MTBF (Hours)	50,000	HTT: 30,000 STT: 60,000	HTT: 50,000 STT: 60,000
CPU		Intel® Core™ i	Intel® Core™ i	Intel® Core™ i
Memory		DDR3 SODIMM x 2, Max. 8 GB	DDR3 SODIMM x 2, Max. 8 GB	DDR3 SODIMM x 2, Max. 8 GB
LCD/CRT Controller		Integrated graphics in Intel® QM57	Integrated graphics in Intel® QM57	Integrated graphics in Intel® QM57
Storage Disk Drive		3.5" Hard Disk Drive bay x 2, DVD-Combo x1	3.5" Hard Disk Drive bay x 2, DVD-Combo x1	2.5" Hard Disk Drive bay x1
I/O Port	Network (LAN)	10/100/1000Base-TX, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2
	Serial Port	RS-232 x 2, RS-232/422/485 x 1	RS-232 x 2, RS-232/422/485 x 1	RS-232 x 1
	Parallel Port	—	—	—
	Keyboard/ Mouse	PS/2 interface	PS/2 interface	PS/2 interface
	USB Connector	USB2.0 x 4 (Rear), USB2.0 x 2 (Front)	USB2.0 x 4 (Rear), USB2.0 x 2 (Front)	USB2.0 x 4 (Rear), USB2.0 x 2 (Front)
	Audio	Mic-in, Line-in, Line-out	Mic-in, Line-in,Line-out	Mic-in, Line-in, Line-out
	Digital	VGA	VGA	VGA
Touch Screen		5-wire resistive	5-wire resistive	5-wire resistive
Expansion Slot		PCI x 2 or PCI-E x 2 PCIe mini card x 1	PCI x 2 or PCI-E x 2 PCIe mini card x 1	PCI x 2 or PCI-E x 2 PCIe mini card x 1
Power Supply		250W w/active PFC	250W w/active PFC	250W w/active PFC
Operating Temperature		32°F ~ 122°F (0°C ~ 50°C)	32°F ~ 122°F (0°C ~ 50°C)	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Front Panel Protection		IP-65	IP-65	IP-65
Certification		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		16.53" x 14.1" x 4.4" (420mm x 358mm x 112mm)	15.36" x 12.76" x 4.91" (390mm x 323.5mm x 124.7mm)	16.61" x 10.46" x 4.28" (345.8mm x 265.8mm x 108.8mm)
Gross Weight		24.2 lb (11 Kg)	18.04 lb (8.2 Kg)	15.86 lb (7.2 Kg)
Net Weight		20.9 lb (9.5 Kg)	14.96 lb (6.8 Kg)	11.89 lb (5.4 Kg)
Mounting		Panel/ Desktop/ Rack	Panel/ Desktop/ Rack	Panel/ Desktop

Infotainment Multi-Touch Panel Solutions

Model		ACP-5212 New	ACP-5182 New	ACP-5152 New
Application		Multi-touch, Infotainment, Retailer	Multi-touch, Infotainment, Retailer	Multi-touch, Infotainment, Retailer
Display	Size/ Type	21.5" TFT-LCD	18.5" TFT-LCD	15.6" TFT-LCD
	Max. Resolution	1366 x 768	1366 x 768	1366 x 768
	Max. Colors	16.7M	16.7M	16.7M
	Dot Size (mm)	0.248 x 0.248	0.3 x 0.3	0.252 x 0.252
	Luminance (cd/m^2) (TYP)	250	300	300
	Viewing Angle	170°(H)/160°(V)	170°(H)/160°(V)	170°(H)/160°(V)
	Back Light MTBF (Hours)	50,000	50,000	50,000
CPU		Intel® Atom™ D510	Intel® Atom™ D510	Intel® Atom™ D510
Memory		DDR2 SODIMM x 1, Max. 2 GB	DDR2 SODIMM x 1, Max. 2 GB	DDR2 SODIMM x 1, Max. 2 GB
LCD/CRT Controller		Integrated graphics in processor	Integrated graphics in processor	Integrated graphics in processor
Storage Disk Drive		2.5" Hard Disk Drive bay, Internal Type CompactFlash™ x 1	2.5" Hard Disk Drive bay, Internal Type CompactFlash™ x 1	2.5" Hard Disk Drive bay, Internal Type CompactFlash™ x 1
I/O Port	Network (LAN)	10/100/1000Base-TX, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2
	Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 1
	Parallel Port	—	—	—
	Keyboard/ Mouse	—	—	—
	USB Connector	USB2.0 x 4 (Rear), USB2.0 x 2 (Side)	USB2.0 x 4 (Rear), USB2.0 x 2 (Side)	USB2.0 x 4 (Rear), USB2.0 x 2 (Side)
	Audio	Line-out	Line-out	Line-out
	Digital	VGA	VGA	VGA
Touch Screen		Projected Capacitive	Projected Capacitive	Projected Capacitive
Expansion Slot		2 Mini-Card (Internal slot)	2 Mini-Card (Internal slot)	2 Mini-Card (Internal slot)
Power Supply		12 VDC input, with AC Power Adapter	12 VDC input, with AC Power Adapter	12 VDC input, with AC Power Adapter
Operating Temperature		32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Front Panel Protection		Front bezel: IP-65; Back chassis: IPx1	Front bezel: IP-65; Back chassis: IPx1	Front bezel: IP-65; Back chassis: IPx1
Certification		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		21.5" x 13.7" x 2.34" (546mm x 384mm x 59.4mm)	18.11" x 12.2" x 2.34" (460mm x 310mm x 59.4mm)	15.51" x 10.71" x 2.44" (394mm x 272mm x 62mm)
Gross Weight		18.3 lb (8.3 Kg)	16.06 lb (7.3 Kg)	13.42 lb (6.1 Kg)
Net Weight		13.9 lb (6.3 Kg)	11 lb (5 Kg)	9.02 lb (4.1 Kg)
Mounting		VESA 75/100	VESA 75/100	VESA 75/100

Note: All specifications are subject to change without notice.

System Level Products

Infotainment Multi-Touch Panel Solutions

Model		ACP-5215 New	ACP-5185 New
Application		Multi-touch, Infotainment, Retailer	Multi-touch, Infotainment, Retailer
Display	Size/ Type	21.5" TFT-LCD	18.5" TFT-LCD
	Max. Resolution	1920 x 1080	1366 x 768
	Max. Colors	16.7M	16.7M
	Dot Size (mm)	0.248 x 0.248	0.3 x 0.3
	Luminance (cd/m^2) (TYP)	250	300
	Viewing Angle	170°(H)/160°(V)	170°(H)/160°(V)
	Back Light MTBF (Hours)	50,000	50,000
CPU		Intel® Core	Intel® Core
Memory		DDR3 SODIMM x 2, Max. 8 GB	DDR3 SODIMM x 2, Max. 8 GB
LCD/CRT Controller		Integrated graphics in QM57	Integrated graphics in QM57
Storage Disk Drive		2.5" Hard Disk Drive bay, Internal Type CompactFlash™	2.5" Hard Disk Drive bay, Internal Type CompactFlash™
I/O Port	Network (LAN)	10/100/1000Base-TX, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2
	Serial Port	RS-232 x 1	RS-232/422/485 x 1
	Parallel Port	—	—
	Keyboard/ Mouse	—	—
	USB Connector	USB2.0 x 4 (Rear), USB2.0 x 2 (Side)	USB2.0 x 4 (Rear), USB2.0 x 2 (Side)
	Audio	Line-out	Line-out
	Digital	VGA	VGA
Touch Screen		Projected Capacitive	Projected Capacitive
Expansion Slot		Mini-Card x 1 (Internal slot)	Mini-Card x 1 (Internal slot)
Power Supply		12 VDC input, with AC Power Adapter	12 VDC input, with AC Power Adapter
Operating Temperature		32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Front Panel Protection		Front bezel: IP-65; Back chassis: IPx1	Front bezel: IP-65; Back chassis: IPx1
Certification		CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		—	18.11" x 12.2" x 3.4" (460mm x 310mm x 86.4mm)
Gross Weight		22 lb (10 Kg)	19.8 lb (9 Kg)
Net Weight		17.6 lb (8 Kg)	15.4 lb (7 Kg)
Mounting		VESA 75/100	VESA 75/100

System Level Products

Multi-Purpose and Water-Proof Solutions (FOX Series)

Model		FOX-151/ FOX-151B	FOX-122/ FOX-122B
Application		Vehicle/ Transportation, Food Industry, Marine, Outdoor KIOSK	Vehicle/ Transportation, Food Industry, Marine, Outdoor KIOSK
Display	Size/ Type	15" TFT LCD	12.1" TFT LCD
	Max. Resolution	1024 x 768	1024 x 768
	Max. Colors	16.7M	262K
	Dot Size (mm)	HTT: 0.297 x 0.297 STT: 0.297 x 0.297	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240
	Luminance (cd/m²) (TYP)	HTT: 250 STT: 800	HTT: 500 STT: 1000
	Viewing Angle	HTT: 170°(H)/160°(V) STT: 160°(H)/140°(V)	HTT: 160°(H)/160°(V) STT: 160°(H)/140°(V)
	Back Light MTBF (Hours)	HTT: 30,000 STT: 60,000	HTT: 50,000 STT: 60,000
CPU		Intel® Atom™ N270	Intel® Core™ 2 Duo U7500
Memory		DDR2 SODIMM x 1, Max. 2 GB	DDR2 SODIMM x 1, Max. 2 GB
LCD/CRT Controller		Integrated graphics in Intel® 945GSE	Integrated graphics in Intel® 945GME
Storage Disk Drive		2.5" Hard Disk Drive bay, Internal Type CompactFlash™	2.5" Hard Disk Drive bay, Internal Type CompactFlash™
I/O Port	Network (LAN)	10/100/1000Base-TX, RJ-45 x 1 (optional)	10/100/1000Base-TX, RJ-45 x 1(optional)
	Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1
	Parallel Port	—	—
	Keyboard/Mouse	—	—
	USB Connector	USB2.0 x 2	USB2.0 x 2
	Audio	Line-out (optional)	Line-out (optional)
	Video	VGA	VGA
Touch Screen		5-wire resistive	5-wire resistive
Expansion Slot		Mini-PCI x1	Mini-PCI x1
Power Supply		9~30 DC input	9~30 DC input
Operating Temperature		-4°F ~ 131°F (-20°C ~ 55°C)	-4°F ~ 131°F (-20°C ~ 55°C)
Storage Temperature		-22°F ~ 158°F (-30°C ~ 70°C)	-22°F ~ 158°F (-30°C ~ 70°C)
Front Panel Protection		All sides IP-67 certificated	All sides IP-67 certificated
Certification		CE/FCC Class A, IEC 60945 Compliant	CE/FCC Class A, IEC 60945 Compliant
Dimension (W x H x D)		20.4" x 18.6" x 8.7" (518mm x 473mm x 222 mm)	13.58" x 11.1" x 2.36" (345mm x 282mm x 60 mm)
Gross Weight		19.81 lb (9 Kg)	17.64 lb (8 Kg)
Net Weight		16.5 lb (7.5 Kg)	14.33 lb (6.5 Kg)
Mounting		VESA 75 /100	VESA 75 /100

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System Level Products

Multi-Purpose and Water-Proof Solutions (FOX Series)

Model		FOX-121 New	FOX-81 New
Application		Vehicle/ Transportation, Food Industry, Marine, Outdoor KIOSK	Outdoor KIOSK, Food Industry, Marine, Vehicle
Display	Size/ Type	12.1" TFT LCD	8.4" TFT LCD
	Max. Resolution	1024 x 768	800 x 600
	Max. Colors	262K	262K
	Dot Size (mm)	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240	0.213 x 0.213
	Luminance (cd/m²) (TYP)	HTT: 500 STT: 1000	450
	Viewing Angle	HTT: 160°(H)/160°(V) STT: 160°(H)/140°(V)	150° (H), 150°(V)
	Back Light MTBF (Hours)	HTT: 50,000 STT: 60,000	50,000
CPU		Intel® Atom™ N270	Intel® Atom™ N270 1.6 GHz
Memory		DDR2 SODIMM x 1, Max. 2 GB	DDR2 SODIMM x 1, Max. 2 GB
LCD/CRT Controller		Integrated graphics in Intel® 945GSE	Intel® 945GSE
Storage Disk Drive		2.5" Hard Disk Drive bay, Internal Type CompactFlash™	2.5" Hard Disk Drive bay, Internal Type 2 CompactFlash™ Slot x 1
I/O Port	Network (LAN)	10/100/1000Base-TX, RJ-45 x 1 (optional)	10/100/1000Base-TX, Water-proof RJ-45 x 1 (optional)
	Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1
	Parallel Port	—	—
	Keyboard/Mouse	—	—
	USB Connector	USB2.0 x 2	USB2.0 x 2
	Audio	—	—
	Video	—	—
Touch Screen		5-wire resistive	5-wire resistive
Expansion Slot		Mini-PCI x1	Mini-PCI x 1 (internal)
Power Supply		9~30 DC input	DC 9 ~ 30V
Operating Temperature		-4°F ~ 131°F (-20°C ~ 55°C)	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature		-22°F ~ 158°F (-30°C ~ 70°C)	-22°F ~ 104°F (-30°C ~ 40°C)
Front Panel Protection		All sides IP-67 certificated	All sides of IP-67 certificated
Certification		CE/FCC Class A, IEC 60945 Compliant	CE/FCC Class A, IEC 60945 Compliant
Dimension (W x H x D)		13.58" x 11.1" x 2.36" (345mm x 282mm x 60 mm)	10.5" x 7.6" x 2.4" (266mm x 192mm x 60mm)
Gross Weight		17.64 lb (8 Kg)	8.8 lb (4 Kg)
Net Weight		14.33 lb (6.5 Kg)	6.6 lb (3 Kg)
Mounting		VESA 75 /100	VESA 75

System Level Products

Industrial Touch Display Solutions

Model		AGD-317D New	AGD-315D New
Application		Factory Automation, Transportation	Factory Automation, Transportation
Display	Type	Rugged Touch Display	Rugged Touch Display
	Size/Type	17" TFT-LCD	15" TFT LCD
	Max. Resolution	1280 x 1024	1024 x 768
	Max. Colors	16.7M	16.7M
	Dot Size (mm)	0.264 x 0.264	HTT: 0.297 x 0.297 STT: 0.297 x 0.297
	Luminance (cd/m^2)(TYP)	380	HTT: 250 STT: 800
	Viewing Angle	170°(H)/160°(V)	HTT: 170°(H)/160°(V) STT: 160°(H)/140°(V)
	Brightness Control	Yes	Yes
	Back Light MTBF (Hours)	50,000	HTT: 30,000 STT: 60,000
On Screen Display		Front Panel	Front Panel
I/O Connector		A1: VGA x1; DVI x1; RS-232 x1 (for T/S); mini USB x1 (for T/S) A2: USB x2 (front); USB x1 (bottom); VGA x1; DVI x1; RS-232 x1 (for T/S); mini USB x1 (for T/S)	A1: VGA x1; DVI x1; RS-232 x1 (for T/S); mini USB x1 (for T/S) A2: USB x2 (front); USB x1 (bottom); VGA x1; DVI x1; RS-232 x1 (for T/S); mini USB x1 (for T/S)
Input Signal		RGB	RGB
Cable Length		VGA, 1.8m	VGA, 1.8m
Touch screen Type		5-wire resistive	5-wire resistive
Front Panel		Aluminum	Aluminum
Chassis		Aluminum	Aluminum
Mounting		Panel/ VESA75/100/ Rack/ Desktop	Panel/ VESA75/100/ Desktop
Power Requirement		9-30V DC input	9-30V DC input
Operating Temperature		32°F ~ 122°F (0°C ~ 50°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-22°F ~ 158°F (-30°C ~ 70°C)
Front Panel Protection		IP-65	IP-65
Certification		CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		16.54" x 14.1" x 4.41" (420mm x 358mm x 112mm)	15.35" x 12.74" x 4.91" (390mm x 323.5mm x 124.7mm)
Gross Weight		14.3 lb (6.5 Kg)	—

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Note: All specifications are subject to change without notice.

Industrial Touch Display Solutions

Model		AGD-312D	AGD-310D New
Application		Factory Automation, Transportation	Factory Automation, Transportation
Display	Type	Rugged Touch Display	Rugged Touch Display
	Size/Type	12.1" TFT LCD	10.4" TFT LCD
	Max. Resolution	1024 x 768	800 x 600
	Max. Colors	262K	262K
	Dot Size (mm)	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240	0.264 x 0.264
	Luminance (cd/m^2)(TYP)	HTT: 500 STT: 1000	400
	Viewing Angle	HTT: 160°(H)/160°(V) STT: 160°(H)/140°(V)	160°(H)/140°(V)
	Brightness Control	Yes	Yes
	Back Light MTBF (Hours)	HTT: 50,000 STT: 60,000	50000
On Screen Display		Front Panel	Front Panel
I/O Connector		A1: VGA x1; DVI x1; RS-232 x1 (for T/S); mini USB x1 (for T/S) A2: USB x2 (front); USB x1 (bottom); VGA x1; DVI x1; RS-232 x1 (for T/S); mini USB x1 (for T/S)	VGA x1 DVI x1 RS-232 x1 (for T/S) USB typeII x1 (for T/S)
Input Signal		RGB	RGB
Cable Length		VGA, 1.8m	VGA, 1.8m
Touch screen Type		5-wire resistive	5-wire resistive
Front Panel		Aluminum	Aluminum
Chassis		Aluminum	Steel
Mounting		Panel/ VESA75/100/ Desktop	Panel / VSEA 75/100
Power Requirement		9-30V DC Input	12V DC Input
Operating Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	14°F ~131°F (-10°C~55°C)
Storage Temperature		-22°F ~ 158°F (-30°C ~ 70°C)	-4°F ~158°F (-20°C~70°C)
Front Panel Protection		IP-65	IP-65
Certification		CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		13.61" x 10.46" x 4.28" (345.8mm x 265.8mm x 108.8mm)	8.98" x 8.5" x 1.93" (228.2mm x 216mm x 49mm)
Gross Weight		9.02 lb (4.1 Kg)	8.58 lb (3.9 Kg)

System Level Products

Industrial Touch Display Solutions

Model		ACD-521D New	ACD-518D New	ACD-515D New
Application		Multi-touch, Infotainment, Retail	Multi-touch, Infotainment, Retail	Multi-touch, Infotainment, Retail
Display	Type	Clouding Display	Clouding Display	Clouding Display
	Size/Type	21.5" TFT-LCD	18.5" TFT-LCD	15.6" TFT-LCD
	Max. Resolution	1920 x 1080	1366 x 768	1366 x 768
	Max. Colors	16.7M	16.7M	16.7M
	Dot Size (mm)	0.248 x 0.248	0.3 x 0.3	0.252 x 0.252
	Luminance (cd/m^2)(TYP)	250	300	300
	Viewing Angle	170°(H)/160°(V)	170°(H)/160°(V)	170°(H)/160°(V)
	Brightness Control	Yes	Yes	Yes
	Back Light MTBF (Hours)	50,000	50,000	50,000
On Screen Display		Front Panel	Front Panel	Front Panel
I/O Connector		VGA x1 DVI x1 Line-in x1 Mini USB x1 (for T/S) USB x1 (bottom) USB x 2 (side)	VGA x1 DVI x1 Line-in x1 Mini USB x1 (for T/S) USB x1 (bottom) USB x 2 (side)	VGA x1 DVI x1 Line-in x1 Mini USB x1 (for T/S) USB x1 (bottom) USB x 2 (side)
Input Signal		RGB	RGB	RGB
Cable Length		VGA, 1.8m	VGA, 1.8m	VGA, 1.8m
Touch screen Type		Projected Capacitive	Projected Capacitive	Projected Capacitive
Front Panel		Plastic	Plastic	Plastic
Chassis		Plastic	Plastic	Plastic
Mounting		VESA 75/100	VESA 75/100	VESA 75/100
Power Requirement		—	—	—
Operating Temperature		32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Front Panel Protection		IP-65	IP-65	IP-65
Certification		CE/FCC Class B	CE/FCC Class B	CE/FCC Class B
Dimension (W x H x D)		21.57" x 13.7" x 2.34" (546mm x 348mm x 59.4mm)	18.11" x 12.2" x 2.28" (460mm x 310mm x 58mm)	15.51" x 10.71" x 2.48" (394mm x 272mm x 63mm)
Gross Weight		—	—	—

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System Level Products

Industrial Touch Display Solutions

Model		FOX-15D New	FOX-12D New	FOX-81D New
Application		Automation, Marine, Heavy-Duty	Automation, Marine, Heavy-Duty	Automation, Marine, Heavy-Duty
Display	Type	Display	Display	Display
	Size/Type	15" TFT LCD	12.1" TFT LCD	8.4" TFT LCD
	Max. Resolution	1024 x 768	1024 x 768	800 x 600
	Max. Colors	16.7M	262K	262K
	Dot Size (mm)	HTT: 0.297 x 0.297 STT: 0.297 x 0.297	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240	0.213 x 0.213
	Luminance (cd/m2)(TYP)	HTT: 250 STT: 800	HTT: 500 STT: 1000	450
	Viewing Angle	HTT: 170°(H)/160°(V) STT: 160°(H)/140°(V)	HTT: 160°(H)/160°(V) STT: 160°(H)/140°(V)	160°(H)/140°(V)
	Brightness Control	Yes	Yes	Yes
	Back Light MTBF (Hours)	HTT: 30,000 STT: 60,000	HTT: 50,000 STT: 60,000	50,000
On Screen Display		Front Panel	Front Panel	Front Panel
I/O Connector		VGA x 1, USB x 1	VGA x 1, USB x 1	VGA x 1, USB x 1
Input Signal		RGB	RGB	RGB
Cable Length		VGA, 1.8m	VGA, 1.8m	VGA, 1.8m
Touch screen Type		5-wire resistive	5-wire resistive	5-wire resistive
Front Panel		Aluminum	Aluminum	Aluminum
Chassis		Aluminum	Aluminum	Aluminum
Mounting		VESA/Wall	VESA/Wall	VESA/Wall
Power Requirement		—	—	—
Operating Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 131°F (-20°C ~ 55°C)
Storage Temperature		-22°F ~ 158°F (-30°C ~ 70°C)	-22°F ~ 158°F (-30°C ~ 70°C)	-22°F ~ 140°F (-30°C ~ 60°C)
Front Panel Protection		IP-67	IP-67	IP-67
Certification		CE/FCC Class A IEC 60945 compliant	CE/FCC Class A IEC 60945 compliant	CE/FCC Class A IEC 60945 compliant
Dimension (W x H x D)		16.1" x 14.41" x 2.36" (410mm x 366mm x 60mm)	13.58" x 11.1" x 2.36" (345mm x 282mm x 60 mm)	10.47" x 7.56" x 2.35" (266mm x 192mm x 59.8mm)
Gross Weight		—	—	—

System Level Products

Industrial Remote Touch Display Solutions

Model		AGD-317R New	AGD-315R New	AGD-312R New
Application		Factory Automation, Transportation	Factory Automation, Transportation	Factory Automation, Transportation
Display	Type	Remote Display	Remote Display	Remote Display
	Size/Type	17" TFT-LCD	15" TFT LCD	12.1" TFT LCD
	Max. Resolution	1280 x 1024	1024 x 768	1024 x 768
	Max. Colors	16.7M	16.7M	262K
	Dot Size (mm)	0.264 x 0.264	HTT: 0.297 x 0.297 STT: 0.297 x 0.297	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240
	Luminance (cd/m2)(TYP)	380	HTT: 250 STT: 800	HTT: 500 STT: 1000
	Viewing Angle	170°(H)/160°(V)	HTT: 170°(H)/160°(V) STT: 160°(H)/140°(V)	HTT: 160°(H)/160°(V) STT: 160°(H)/140°(V)
	Brightness Control	Yes	Yes	Yes
	Back Light MTBF (Hours)	50,000	HTT: 30,000 STT: 60,000	HTT: 50,000 STT: 60,000
On Screen Display		Front Panel	Front Panel	Front Panel
I/O Connector		A1: RJ-45 x2, Line-out x 1 A2: RJ-45 x2, Line-out x 1; Mini USBx1 (for T/S); USB x1 (bottom); USB x 2 (front)	A1: RJ-45 x2, Line-out x 1 A2: RJ-45 x2, Line-out x 1; Mini USBx1 (for T/S); USB x1 (bottom); USB x 2 (front)	A1: RJ-45 x2, Line-out x 1 A2: RJ-45 x2, Line-out x 1; Mini USBx1 (for T/S); USB x1 (bottom); USB x 2 (front)
Input Signal		HDMI or DVI or VGA	HDMI or DVI or VGA	HDMI or DVI or VGA
Cable Length		RJ-45, 100m	RJ-45, 100m	RJ-45, 100m
Touch screen Type		5-wire resistive	5-wire resistive	5-wire resistive
Front Panel		Aluminum	Aluminum	Aluminum
Chassis		Aluminum	Aluminum	Aluminum
Mounting		Panel/ Desktop/ VESA 75/100 /Rack	Panel/ Desktop/ VESA 75/100	Panel/ Desktop/ VESA 75/100
Power Requirement		—	—	—
Operating Temperature		32°F ~ 122°F (0°C ~ 50°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-22°F ~ 158°F (-30°C ~ 70°C)	-22°F ~ 158°F (-30°C ~ 70°C)
Front Panel Protection		IP-65	IP-65	IP-65
Certification		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		16.54" x 14.1" x 4.41" (420mm x 358mm x 112mm)	15.35" x 12.74" x 4.91" (390mm x 323.5mm x 124.7mm)	13.6" x 10.46" x 4.28" (345.8mm x 265.8mm x 108.8mm)
Gross Weight		—	—	—

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Note: All specifications are subject to change without notice.

System Level Products

Industrial Remote Touch Display Solutions

Model		ACD-521R New	ACD-518R New	ACD-515R New
Application		Infotainment, Retail	Infotainment, Retail	Infotainment, Retail
Display	Type	Remote Display	Remote Display	Remote Display
	Size/Type	21.5" TFT-LCD	18.5" TFT-LCD	15.6" TFT-LCD
	Max. Resolution	1920 x 1080	1366 x 768	1366 x 768
	Max. Colors	16.7M	16.7M	16.7M
	Dot Size (mm)	0.248 x 0.248	0.3 x 0.3	0.252 x 0.252
	Luminance (cd/m²) (TYP)	250	300	300
	Viewing Angle	170°(H)/160°(V)	170°(H)/160°(V)	170°(H)/160°(V)
	Brightness Control	Yes	Yes	Yes
	Back Light MTBF (Hours)	50,000	50,000	50,000
On Screen Display		Front Panel	Front Panel	Front Panel
I/O Connector		A1: RJ-45 x2, Line-out x 1 A2: RJ-45 x2, Line-out x 1; Mini USBx1 (for T/S); USB x1 (bottom); USB x 2 (side)	A1: RJ-45 x2, Line-out x 1 A2: RJ-45 x2, Line-out x 1; Mini USB x1 (for T/S); USB x1 (bottom); USB x 2 (side)	A1: RJ-45 x2, Line-out x 1 A2: RJ-45 x2, Line-out x 1; Mini USB x1 (for T/S); USB x1 (bottom); USB x 2 (side)
Input Signal		HDMI or DVI or VGA	HDMI or DVI or VGA	HDMI or DVI or VGA
Cable Length		RJ-45, 100m	RJ-45, 100m	RJ-45, 100m
Touch screen Type		Projected Capacitive	Projected Capacitive	Projected Capacitive
Front Panel		Plastic	Plastic	Plastic
Chassis		Plastic	Plastic	Plastic
Mounting		VESA 75/100	VESA 75/100	VESA 75/100
Power Requirement		—	—	—
Operating Temperature		32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Front Panel Protection		IP-65	IP-65	IP-65
Certification		CE/FCC Class B	CE/FCC Class B	CE/FCC Class B
Dimension (W x H x D)		21.57" x 13.7" x 2.34" (548mm x 348.1mm x 59.4mm)	18.11" x 12.2" x 2.28" (460mm x 310mm x 58mm)	15.51" x 10.71" x 2.44" (394mm x 272mm x 62mm)
Gross Weight		—	—	—

System Level Products

Industrial Remote Touch Display Solutions

Model		FOX-15R New	FOX-12R New
Application		Automation, Marine, Heavy-Duty	Automation, Marine, Heavy-Duty
Display	Type	Remote Display	Remote Display
	Size/Type	15" TFT LCD	12.1" TFT LCD
	Max. Resolution	1024 x 768	1024 x 768
	Max. Colors	16.7M	262K
	Dot Size (mm)	HTT: 0.297 x 0.297 STT: 0.297 x 0.297	HTT: 0.3075 x 0.3075 STT: 0.240 x 0.240
	Luminance (cd/m²) (TYP)	HTT: 250 STT: 800	HTT: 500 STT: 1000
	Viewing Angle	HTT: 170°(H)/160°(V) STT: 160°(H)/140°(V)	HTT: 160°(H)/160°(V) STT: 160°(H)/140°(V)
	Brightness Control	Yes	Yes
	Back Light MTBF (Hours)	HTT: 30,000 STT: 60,000	HTT: 50,000 STT: 60,000
On Screen Display		Front Panel	Front Panel
I/O Connector		RJ-45 x 2	RJ-45 x 2
Input Signal		VGA	VGA
Cable Length		RJ-45, 100m	RJ-45, 100m
Touch screen Type		5-wire resistive	5-wire resistive
Front Panel		Aluminum	Aluminum
Chassis		Aluminum	Aluminum
Mounting		VESA 75/100	VESA 75/100
Power Requirement		—	—
Operating Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature		-22°F ~ 158°F (-30°C ~ 70°C)	-22°F ~ 158°F (-30°C ~ 70°C)
Front Panel Protection		IP-67	IP-67
Certification		CE/FCC Class A IEC 60945 compliant	CE/FCC Class A IEC 60945 compliant
Dimension (W x H x D)		16.1" x 14.41" x 2.36" (410mm x 366mm x 60mm)	13.58" x 11.1" x 2.36" (345mm x 282mm x 60 mm)
Gross Weight		—	—

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Note: All specifications are subject to change without notice.

System Level Products

Industrial Remote Touch Display Solutions

Model	ACG-203 New	ACG-204 New
Application	Automation Infotainment	Automation Infotainment
Form Factor	Desktop	Desktop
Front I/O	VGA (or DVI) input x 1 RJ-45 x 1 Mini USB x 1 Reset x 1 LED x 2 Dip switch x 1	Mini USB x1 RJ-45 x 2 DVI-I x 1 Line-out x 1 Dip switch x 1 Reset x 1 LED x 2
Rear I/O	—	—
Side I/O	—	—
Power Requirement	12VDC w/power adaptor	12VDC w/power adaptor
Operation Temperature	32°F ~122°F (0°C~50°C)	32°F ~122°F (0°C~50°C)
Storage Temperature	-4°F ~140°F (-20°C~60°C)	-4°F ~140°F (-20°C~60°C)
Certification	CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)	8.19" x 0.98" x 4.04" (208mm x 25mm x 102.5mm)	8.19" x 0.98" x 4.23" (208mm x 25mm x 107.5mm)
Gross Weight	1.23 lb (0.56 kg)	1.32 lb (0.6 kg)
Mounting	Desktop / VESA	Desktop / VESA

System Level Products

Rugged Tablet Computers

Model		RTC-700R New	RTC-700T New
Application		Warehouse Management Transportation Law Enforcement Factory Automation Utility Defense & Government Construction	Warehouse Management Transportation Law Enforcement Factory Automation Utility Defense & Government Construction
CPU		NVIDIA® Tegra™ 2 1.0GHz, Dual core CPU	Intel® Atom™ Z670 1.5GHz
Display	Size/ Type	7" TFT-LCD	7" TFT-LCD / 16:10
	Max. Resolution	1280 x 800	1024 x 600
	Max. Colors	262K	262K
	Dot Size (mm)	0.117755 (H) × 0.117755 (V)	0.150 (V) × 0.15 (H)mm
	Luminance (nits) (Typ.)	350	400
	Viewing Angle	Horizontal: 178° (Typ.)/Vertical: 178° (Typ.)	Horizontal: 178° (Typ.)/ Vertical: 178° (Typ.)
Display	Touch Type	Projected Capacitive, Multi-Touch Panel, Gorilla glass	Projected Capacitive, Multi-Touch Panel
Touch	Light Transmission	≥ 87%	≥ 87%
AOT		—	—
G-sensor (Screen Rotation)		G-Sensor 3-axis digital gyroscope	G-Sensor
Memory		1GB SDRAM	1GB SDRAM
Graphics Controller		—	Intel® SM35
Storage Disk Drive		16GB eMMC Flash	16GB mSATA MLC; 40GB mSATA
OS		Android v3.2	Windows® 7 (default)
I/O Port	Network (LAN)	—	—
	Wireless	802.11 b/g/n + Bluetooth 2.1 + EDR	802.11 b/g/n + Bluetooth 2.1 + EDR
	Serial Port	—	RS-232 x 1 (Optional)
	Keyboard / Mouse	—	—
	USB	Mini USB x 1	Mini USB x 1
	Video	Mini HDMI x 1	Mini HDMI x 1
	Audio	3.5-mm stereo headphone jack x 1	3.5-mm stereo headphone jack x 1
Speaker / MIC		Yes	Yes
Expansion Slot		1. MicroSD x 1 (Support SDHC) 2. SIM x 1	1. MicroSD x 1 (Support SDHC) 2. SIM x 1
GPS		GPS, E- compass	GPS, Light Sensor
Camera		Front: 1.2MP, Rear: 5MP	Front: 2MP (Optional), Rear: 5MP
Power	Power Supply	DC jack x 1, +12V DC input	DC jack x 1, +12V DC input
	Battery Capacity	27 WHr	27 WHr
	Battery Life	6 Hrs	4 Hrs
Docking Connector		—	—
Operating Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity		10 - 95 %	10 - 95 %
Front Panel Protection		IP65	IP65
Drop	MIL-STD-810G Method 516.6 Procedure IV	Yes	Yes
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2	Yes	Yes
	ASTM 4169-99 Truck Assurance Level II, Schedule E	Yes	Yes
Certification	EMC	CE / FCC-Class B / UL	CE / FCC-Class B / UL
	Safety	UL60950-1 / EN60950-1	UL60950-1 / EN60950-1
Dimension (W x H xD)		5.38" x 8.58" x 0.83" (136.6mm x 218mm x 21mm)	5.20" x 8.43" x 1.06" (132mm x 214mm x 26.8mm)
Gross Weight		1.2 lb (0.57kg)	1.5 lb (0.7kg)
Color		Black	Black
Standard Accessory		AC adapter Power cable User manual	AC adapter Power cable User manual
Optional Accessory		3.5G modem module Carry bag Vehicle DC/DC adapter	3.5G modem module Carry bag Vehicle DC/DC adapter
		TAIWAN EXCELLENCE 2012	TAIWAN EXCELLENCE 2012

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Note: All specifications are subject to change without notice.

System Level Products

Rugged Tablet Computers

Model		RTC-1000AS	RTC-1000A
Application		Medical Warehouse Management Transportation Law Enforcement Factory Automation Utility Defense & Government Construction	Warehouse Management Transportation Law Enforcement Factory Automation Utility Defense & Government Construction
CPU		Intel® Atom™ N270 1.6GHz	Intel® Atom™ N270 1.6GHz
Display	Size/ Type	10.2" TFT-LCD / 16:9	10.2" TFT-LCD / 16:9
	Max. Resolution	1024 x 600	1024 x 600
	Max. Colors	262K	262K
	Dot Size (mm)	0.2175 (H) x 0.2175 (V)	0.2175 (H) x 0.2175 (V)
	Luminance (nits) (Typ.)	200 / 500 (Optional)	200 / 500 (Optional)
	Viewing Angle	Horizontal: 140° (Typ.)/ Vertical: 120° (Typ.)	Horizontal: 140° (Typ.)/Vertical: 120° (Typ.)
Display Touch	Touch Type	4-wire Resistive	4-wire Resistive
	Light Transmission	>= 85%	>= 85%
AOT		Yes	Yes
G-senser (Screen Rotation)		Yes	Yes
Memory		Max. 2GB DDR2	Max. 2GB DDR2
Graphics Controller		Intel® 945GSE	Intel® 945GSE
Storage Disk Drive		2.5" SATA 80 GB HDD/ SSD (Optional)	2.5" SATA 80 GB HDD/ SSD (Optional)
OS		WES 2009 (Default), WES 7 (Optional), Linux: Ubuntu 9.04 (Optional)	WES 2009 (Default), WES 7 (Optional), Linux: Ubuntu 9.04 (Optional)
I/O Port	Network (LAN)	Gigabit Ethernet x 1	Gigabit Ethernet x 1
	Wireless	802.11 b/g + Bluetooth 2.0 + EDR	802.11 b/g + Bluetooth 2.0 + EDR
	Serial Port	RS-232/422/485 x 1 (for M/B A2.0)	RS-232/422/485 x 1
	Keyboard / Mouse	Numeric Keypad + Hot Keys	Numeric Keypad + Hot Keys
	USB	USB 2.0 x 2 + mini USB x 1	USB 2.0 x 2 + mini USB x 1
	Video	VGA	VGA
	Audio	Line-out jack x 1, MIC-in jack x 1	Line-out jack x 1, MIC-in jack x 1
Speaker / MIC		Yes	Yes
Expansion Slot		PCMCIA (Default) or Smart Card x 1, mini Card x 2 (Internal) (One is occupied by WiFi+BT combo module), CompactFlash™ (Default) x 1, SIM x 1	PCMCIA (Default) or Smart Card x 1, mini Card x 2 (Internal) (One is occupied by WiFi+BT combo module), CompactFlash™ (Default) x 1, SIM x 1
GPS		Optional	Optional
Camera		—	—
Power	Power Supply	DC jack x 1, +19V DC input	DC jack x 1, +19V DC input
	Battery Capacity	3S1P, 3 cells, 3500mAh	3S3P, 9 cells, 7800mAh
	Battery Life	3 Hrs	7 Hrs
Docking Connector		Yes	Yes
Operating Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity		5 - 95 %	5 - 95 %
Front Panel Protection		IP65	IP65
Drop	MIL-STD-810G Method 516.6 Procedure IV	Yes	Yes
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2	Yes	Yes
	ASTM 4169-99 Truck Assurance Level II, Schedule E	Yes	Yes
Certification	EMC	CE / FCC-Class B	CE / FCC-Class B
	Safety	UL60950-1 / EN60950-1	UL60950-1 / EN60950-1
Dimension (W x H xD)		10.63" x 7.24" x 1.49" (270mm x 184mm x 38mm)	10.63" x 7.24" x 1.93" (270mm x 184mm x 49mm)
Gross Weight		4 lb (1.8 kg)	5 lb (2.3 kg)
Color		Black	Black
Standard Accessory		AC adapter, Power cord, Hand strap Bumpers, Utility DVD, Stylus with tether	AC adapter, Power cord, Hand strap Bumpers, Utility DVD, Stylus with tether
Optional Accessory		GPS module, 3.5G modem module Office docking station, Vehicle docking station Carry bag, Vehicle DC/DC adapter	GPS module, 3.5G modem module Office docking station, Vehicle docking station Carry bag, Vehicle DC/DC adapter
		TAIWAN EXCELLENCE 2010	TAIWAN EXCELLENCE 2009

Rugged Tablet Computers

Model		RTC-1000D	RTC-1000i
Application		Warehouse Management Transportation Law Enforcement Factory Automation Utility Defense & Government Construction	Warehouse Management Transportation Law Enforcement Factory Automation Utility Defense & Government Construction
CPU		Intel® Core™ Duo U2500 1.2GHz	Intel® Core™ i7-620UE 1.06GHz
Display	Size/ Type	10.2" TFT-LCD / 16:9	10.2" TFT-LCD / 16:9
	Max. Resolution	1024 x 600	1024 x 600
	Max. Colors	262K	262K
	Dot Size (mm)	0.2175 (H) x 0.2175 (V)	0.2175 (H) x 0.2175 (V)
	Luminance (nits) (Typ.)	200 / 500 (Optional)	200 / 500 (Optional)
	Viewing Angle	Horizontal: 140° (Typ.)/ Vertical: 120° (Typ.)	Horizontal: 140° (Typ.)/ Vertical: 120° (Typ.)
Display Touch	Touch Type	4-wire Resistive	4-wire Resistive
	Light Transmission	>= 85%	>= 85%
AOT		Yes	Yes
G-senser (Screen Rotation)		Yes	Yes
Memory		Max. 2GB DDR2	Max. 6GB DDR3
Graphics Controller		Intel® 945GME	Intel® QM57
Storage Disk Drive		2.5" SATA 80 GB HDD/ SSD (Optional)	2.5" SATA 80 GB HDD/ SSD (Optional)
OS		WES 2009 (Default), WES 7 (Optional), Linux: Ubuntu 9.04 (Optional)	WES 2009 (Default), WES 7 (Optional), Linux: Ubuntu 9.04 (Optional)
I/O Port	Network (LAN)	Gigabit Ethernet x 1	Gigabit Ethernet x 1
	Wireless	802.11 b/g + Bluetooth 2.0 + EDR	802.11 b/g + Bluetooth 2.0 + EDR
	Serial Port	RS-232/422/485 x 1	RS-232/422/485 x 1
	Keyboard / Mouse	Numeric Keypad + Hot Keys	Numeric Keypad + Hot Keys
	USB	USB 2.0 x 2 + mini USB x 1	USB 2.0 x 2 + mini USB x 1
	Video	VGA	VGA
	Audio	Line-out jack x 1, MIC-in jack x 1	Line-out jack x 1, MIC-in jack x 1
Speaker / MIC		Yes	Yes
Expansion Slot		PCMCIA (Default) or Smart Card x 1, mini Card x 2 (Internal) (One is occupied by WiFi+BT combo module), CompactFlash™ (Default) x 1, SIM x 1	PCMCIA (Default) or Smart Card x 1, mini Card x 2 (Internal) (One is occupied by WiFi+BT combo module), CompactFlash™ (Default) or SDHC x 1, SIM x 1
GPS		Optional	Optional
Camera		—	—
Power	Power Supply	DC jack x 1, +19V DC input	DC jack x 1, +19V DC input
	Battery Capacity	3S3P, 9 cells, 7800mAh	3S3P, 9 cells, 7800mAh
	Battery Life	5 Hrs	5 Hrs
Docking Connector		Yes	Yes
Operating Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity		5 - 95 %	5 - 95 %
Front Panel Protection		IP65	IP65
Drop	MIL-STD-810G Method 516.6 Procedure IV	Yes	Yes
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2	Yes	Yes
	ASTM 4169-99 Truck Assurance Level II, Schedule E	Yes	Yes
Certification	EMC	CE / FCC-Class B	CE / FCC-Class B
	Safety	UL60950-1 / EN60950-1	UL60950-1 / EN60950-1
Dimension (W x H xD)		10.63" x 7.24" x 1.93" (270mm x 184mm x 49 mm)	10.63" x 7.24" x 1.93" (270mm x 184mm x 49mm)
Gross Weight		5 lb (2.3 kg)	5 lb (2.3 kg)
Color		Black	Black
Standard Accessory		AC adapter, Power cord, Hand strap Bumpers, Utility DVD, Stylus with tether	AC adapter, Power cord, Hand strap Bumpers, Utility DVD, Stylus with tether
Optional Accessory		GPS module, 3.5G modem module Office docking station, Vehicle docking station Carry bag, Vehicle DC/DC adapter	GPS module, 3.5G modem module Office docking station, Vehicle docking station Carry bag, Vehicle DC/DC adapter

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System Level Products

BOXER LITE Series - Fanless Embedded Controller Solutions

Launching in Q2

Model		AEC-6636	AEC-6635
		Machine Control, Data Processing, Fleet Management, Data Management	Factory automation, Digital signage, Vehicle
CPU		Intel® Core™ i5/i3/Celeron® processor	Intel® Core™ i7 620M 2.66GHz/ Intel® Core™ i5 520M 2.4GHz
Chipset		Intel® QM67	Intel® QM57
System Memory		DDR3 1066/1333 SDRAM SODIMM X 1, Max.8GB	204-pin DDR3 SODIMM x 1, Max 4GB
Display Interface	VGA	DB-15 x 1 (optional 2nd VGA)	DB-15 x 1, Shared system memory up to 512MB/
	DVI	(Optional extension kit)	DVI-D x 1
	HDMI	—	—
	Others	—	DisplayPort x 1
Storage Device	SSD	Onboard CFast™ x 1	ComactFlash™ Slot x 1
	HDD	2.5" SATA HDD bay x 1	2.5" SATA Hard Disk Drive Bay x 1
Network	LAN	Gigabit Ethernet, RJ-45 x 2	10/100/1000Base-TX, RJ-45 x 2
	Wireless	Optional by Mini Card	—
Front I/O	USB Host	USB2.0 x 2	USB 2.0 x 2
	LAN	—	—
	Serial Port	—	—
	DIO	—	Line-in x 1, Line out x 1
	Audio	1	—
	KB/MS	1	Power switch x 1, Reset Button x 1
	Others	Power ON/OFF Switch x 1, antenna hole x 2	—
Rear I/O	USB Host	USB2.0 x 2	USB 2.0 x 4
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
	DIO	—	1
	Audio	—	—
	KB/MS	—	—
	Others	Power input x 1, VGA x 1	DVI-D x 1, VGA x 1
Expansion	PCIe [x1]	—	—
	PCI	—	1
	Mini Card	1	1
	Mini PCI	—	—
	Others	—	—
Indicator	Front	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive LED x 1
	Rear	—	—
Power Requirement		DC-in 12V, with DC jack, lockable, DC 9 ~ 30V with 3-pin terminal block	DC-in 9-30V
Power Consumption		—	Intel® i7 620M, 4.06A@9V
System Cooling		Passive	Passive
Mounting		Wallmount	Wallmount
Operating Temperature		-4°F ~ 122°F(-20°C ~ 50°C) w/o Airflow -4°F ~ 131°F(-20°C ~ 55°C) w/ Airflow	-4°F ~ 122°F(-20°C ~ 50°C)
Storage Temperature		-20°C ~ 70°C (-4°F ~ 158°F)	-4°F ~ 140°F(-20°C ~ 60°C)
0		5g rms / 5 ~ 500Hz / operation – CFD 1g rms / 5~ 500Hz / operation – HDD	5g rms / 5 ~ 500Hz / operation – CFD, 1g rms / 5~ 500Hz / operation – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFD, 20G peak acceleration (11 msec. duration) – HDD
MTBF		—	—
Certification	EMC	CE /FCC Class A	CE/FCC Class A
	Safety	—	—
Dimension (W x H x D)		8.35" (W) x 2.52" (H) x 9.8" (D) (212mm x 64mm x 249mm)	8.35" x 2.52" x 9.8" (212mm x 64mm x 249mm)
Gross Weight		10.36 lb (4.7 Kg)	13.42 lb (6.1 kg)
Net Weight		—	8.36 lb (3.8Kg)
Note		Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 10	

BOXER LITE Series - Fanless Embedded Controller Solutions

Model		AEC-6625	AEC-6613
		Factory Automation,Vehicle, Marine	Machine Control, Data Processing, Fleet Management, Data Management
CPU		Intel® P4500 1.86GHz	Intel® Atom™ D2700 2.13GHz
Chipset		Intel® QM57	Intel® NM10
System Memory		204-pin DDR3 SODIMM x 1, Max 4GB	DDR3 1066 SDR AM SODIMM X 1, Max.2GB (optional max. to 4GB)
Display Interface	VGA	DB-15 x 1, shared system memory up to 512MB	DB-15 x 1 (optional 2nd VGA)
	DVI	DVI-D x 1	(Optional extension kit)
	HDMI	—	
	Others	DisplayPort x 1 with cover for protection	—
Storage Device	SSD	CompactFlash™ Slot	CFast™ Slot x 1
	HDD	2.5" SATA Slim Hard Disk Drive Bay x 1 (TF-AEC-6625-A3M-1010) Optional Dual 2.5" Slim Hard Disk Drive Kit Optional 2.5" Slim Hard Disk Drive + Slim CD-ROM Kit	2.5" SATA HDD bay x 1
Network	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2
	Wireless	—	Optional by Mini Card
Front I/O	USB Host	USB2.0 x 2 (TF-AEC-6625-A2M/A3M-1010)	USB2.0 x 2
	LAN	—	—
	Serial Port	—	—
	DIO	—	—
	Audio	—	—
	KB/MS	—	—
	Others	Power Switch x 1, Reset Button x 1	Power ON/OFF Switch x 1, Power LED x 1, HDD LED x 1 CompactFlash™ slot x 1, antenna hole x 2
Rear I/O	USB Host	USB2.0 x 4	USB 2.0 x 2
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial Port	RS-232/422/485 x 1, RS-232 x 1 (TF-AEC-6625-A1M-1010) RS-232 x 3(TF-AEC-6625-A2M/A3M-1010)	RS-232 x 3 (optional extra 2), RS-232/422/485 x 1
	DIO	—	—
	Audio	Line-in/Line-out x 1	—
	KB/MS	—	—
	Others	DVI x 1, VGA x 1, Power inlet x 1	Power input x 1
Expansion	PCIe [x1]	—	—
	PCI	—	—
	Mini Card	1	1
	Mini PCI	—	—
	Others	PCI-104 x 1 (TF-AEC-6625-A3M-1010 only)	—
Indicator	Front	Power LED x 1, Hard Disk Drive LED x 1	Power LED x 1, Hard Disk Drive active LED x 1
	Rear	—	—
Power Requirement		DC-in 9~30V	DC-in 12V, with DC jack lockable, DC 9 ~ 30V with 3-pin terminal block
Power Consumption		Intel® P4500, 1.25A@30V	—
System Cooling		Passive Cooling	Passive
Mounting		Wallmount	Wallmount
Operating Temperature		Ambient with Airflow -4°F ~ 140°F (-20°C ~ 60°C) No Airflow -4°F ~ 122°F (-20°C ~ 50°C)	Ambient with Airflow: -4°F ~ 140°F (-20°C ~ 60°C) - CFD -4°F ~ 140°F (-20°C ~ 60°C) - HDD No Airflow: -4°F ~ 122°F (-20°C ~ 50°C) - CFD -4°F ~ 131°F (-20°C ~ 55°C) - HDD
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-20°C ~ 70°C (-4°F ~ 158°F)
Anti-Vibration		5 g rms/ 5 ~ 500Hz/ operation – CompactFlash™, 1 g rms/ 5~ 500Hz/ operation – HDD	5g rms / 5 ~ 500Hz / operation – CFD 1g rms / 5~ 500Hz / operation – HDD
Anti-Shock		20 G peak acceleration (11 msec. duration)	50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD
MTBF		—	—
Certification	EMC	CE /FCC Class A	CE /FCC Class A
	Safety	—	—
Dimension (W x H x D)		8.35" (w) x2.52" (H) x 6.22" (D) (212mm x 64mm x 158mm)	7.76" (W) x 2.44" (H) x 4.41" (D) (197mm x 57.2mm x 112mm)
Gross Weight		10.34 lb (4.7 Kg)	4.85 lb (2.2 Kg)
Note		Windows® XP Embedded, Windows® XP, Windows® 7 Support	Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 10

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Note: All specifications are subject to change without notice.

BOXER LITE Series - Fanless Embedded Controller Solutions

Model		AEC-6612 Rev. A	AEC-6612 Rev. B
		Factory Automation,Vehicle, Marine	Factory Automation,Vehicle, Marine
CPU		Intel® Atom™ D510 1.66GHz	Intel® Atom™ D525 1.8GHz
Chipset		ICH8M	Intel® ICH8M
System Memory		DDR2 SDRAM SODIMM x 1, Max. 2 GB	204-pin DDR3 SODIMM 667/800 MHz x 1, Max 4G
Display Interface	VGA	DB-15 x 1,shared system memory up to 384MB	DB-15 x 1 (optional 2nd VGA)
	DVI	—	DVI-D x 1 (optional extension kit)
	Others	2nd VGA x 1 (Optional extension kit)	—
Storage Device	SSD	CompactFlash™ Slot	Compact Flash™ Slot x 1
	HDD	2.5" SATA 1.5Gb/s Slim Hard Disk Drive Bay	2.5" SATA HDD drive bay x 1
Network	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2
	Wireless	—	Optional WiFi kit (802.11b/g/n)
Front I/O	USB Host	USB2.0 x 2 (TF-AEC-6612-A1/A1M-1010), USB2.0 x 6 (TF-AEC-6612-A2/A2M-1010)	—
	LAN	RJ-45 x 2	—
	Serial Port	RS-232/422/485 x 1, RS-232 x 1 (TF-AEC-6612-A1/A1M-1010), RS-232 x 5 (TF-AEC-6612-A2/A2M-1010)	—
	DIO	DIO x 1 (optional extension kit)	4 DI + 4 DO
	Audio	—	—
	KB/MS	—	—
	Others	Power Switch x 1, Reset Button x 1, Power inlet x 1	Power input x 1 CompactFlash™ slot x 1
Rear I/O	USB Host	—	USB 2.0 x 2 (TF-AEC-6612-B1/B1M-1010) USB 2.0 x 6 (TF-AEC-6612-B2/B2M-1010)
	LAN	—	Gigabit Ethernet, RJ-45 x 2
	Serial Port	—	RS-232 x 1, RS-232/422/485 x 1 (TF-AEC-6612-B1/B1M-1010) RS-232 x 5, RS-232/422/485 x 1 (TF-AEC-6612-B2/B2M-1010)
	DIO	—	—
	Audio	—	—
	KB/MS	—	—
	Others	CompactFlash™ slot x 1	Power Switch x 1, SYS LED x 1, HDD LED x 1, VGA x 1
Expansion	PCIe [x1]	—	—
	PCI	—	—
	Mini Card	2	1
	Mini PCI	—	—
	Others	—	—
Indicator	Front	Power LED x 1, Hard Disk Drive LED x 1	—
	Rear	—	Power LED x 1, Hard Disk Drive LED x 1
Power Requirement		DC-in 9~30V/ DC-in 12 V input	DC-in 12V/DC-in 9 ~ 30V
Power Consumption		Intel® Atom™ D510, 1.18A@12V	Intel® Atom™ D525 1.8GHz, 1.7A@12V
System Cooling		Passive Cooling	Passive
Mounting		Wallmount	Wallmount
Operating Temperature		Ambient with Airflow -4°F ~ 122°F (-20°C ~ 50°C) - CFD -4°F ~ 140°F (-20°C ~ 60°C) - HDD No Airflow -4°F ~ 113°F (-20°C ~ 45°C) - CFD -4°F ~ 122°F (-20°C ~ 50°C) - HDD	Ambient with Airflow: -4°F ~ 140°F (-20°C ~ 60°C) - CFD -4°F ~ 140°F (-20°C ~ 60°C) - HDD No Airflow: -4°F ~ 122°F (-20°C ~ 50°C) - CFD -4°F ~ 131°F (-20°C ~ 55°C) - HDD
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-20°C ~ 70°C (-4°F ~ 158°F)
Anti-Vibration		5 g rms/ 5 ~ 500Hz/ operation – CFD, 1 g rms/ 5~ 500Hz/ operation – HDD	5 g rms/ 5 ~ 500Hz/ operation – CFD, 1 g rms/ 5~ 500Hz/ operation – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD	50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD
MTBF		50,000	50,000
Certification	EMC	CE /FCC Class A	CE /FCC Class A
	Safety	—	—
Dimension (W x H x D)		7.76" (w) x 2.44" (H) x 4.41" (D) (197mm x 57mm x 112mm)	7.76" (W) x 2.26" (H) x 4.34" (D) (197mm x 57.2mm x 110mm)
Gross Weight		4.31 lb (1.96 Kg)	4.85 lb (2.2 Kg)
Note		Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 2.4 Support	—

BOXER LITE Series - Fanless Embedded Controller Solutions

Model		AEC-6611	AEC-6620
		Machine Controller, Building Automation	Machine Controller, Building Automation
CPU		Intel® Atom™ N270, 1.6 GHz	Intel® Atom™ N270, 1.6 GHz
Chipset		Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M
System Memory		DDR2 SDRAM SODIMM x 1, Max. 2 GB	DDR2 SDRAM SODIMM x 1, Max. 2 GB
Display Interface	VGA	DB-15 x 1,shared system memory up to 224MB/ DVMT 3.0	DB-15 x 1, shared system memory up to 224MB/ DVMT 3.0
	DVI	—	—
	Others	Dual-channel 24-bit LVDS (optional extension kit) 2nd VGA x 1 (optional extension kit)	—
Storage Device	SSD	CompactFlash™ Slot	CompactFlash™ Slot (internal)
	HDD	2.5" SATA 1.5Gb/s Slim Hard Disk Drive Bay	—
Network	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2
	Wireless	—	—
Front I/O	USB Host	USB2.0 x 2 (TF-AEC-6611-A1-1010), USB2.0 x 4 (TF-AEC-6611-A2/A2M/A3-1010)	USB2.0 x 4
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial Port	RS-232 x 1/3/7 (optional), RS-232/422/485 x 1	RS-232 x 1
	DIO	—	—
	Audio	—	Line-out x 1
	KB/MS	—	—
	Others	Power Switch x 1, Reset Button x 1, Power inlet x 1	Power Switch x 1, Reset Button x 1, VGA x 1, Power inlet x 1
Rear I/O	USB Host	—	—
	LAN	—	—
	Serial Port	—	—
	DIO	—	—
	Audio	—	—
	KB/MS	—	—
	Others	CompactFlash ™ slot x 1	—
Expansion	PCIe [x1]	—	—
	PCI	—	—
	Mini Card	1 (optional)	—
	Mini PCI	1 (optional)	—
	Others	—	—
Indicator	Front	Power LED x 1, Hard Disk Drive LED x 1	Power LED x 1, Hard Disk Drive LED x 1
	Rear	—	—
Power Requirement		DC-in 9~30V / DC-in 12 V input (optional)	DC 8.5V ~19V
Power Consumption		Intel® Atom™ N270, 1.6GHz 1.12A @ 12V	Intel® Atom™ N270 1.6 GHz, 1.47A@DC9V
System Cooling		Passive Cooling	Passive Cooling
Mounting		Wallmount	Wallmount
Operating Temperature		Ambient with Airflow: -4°F ~ 140°F (-20°C ~ 60°C) - CFD -4°F ~ 140°F (-20°C ~ 60°C) - HDD No Airflow: -4°F ~ 122°F (-20°C ~ 50°C) - CFD -4°F ~ 131°F (-20°C ~ 55°C) - HDD	32°F ~ 122°F (0°C ~ 50°C) (CompactFlash™)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 g rms/ 5 ~ 500Hz/ operation – CFD, 1 g rms/ 5~ 500Hz/ operation – HDD	5 g rms/ 5 ~ 500Hz / operation (CompactFlash™)
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD	50 G peak acceleration (11 msec. duration) (CompactFlash™)
MTBF		55,000	60,000
Certification	EMC	CE /FCC Class A	CE /FCC Class A
	Safety	—	—
Dimension (W x H x D)		7.8"(W) x 2.3"(H) x 4.4"(D) (197mm x 57.2mm x 112mm)	8"(W) x 1.8"(H) x 4.7"(D) (213mm x 45mm x 120mm)
Gross Weight		4.31 lb (1.96 Kg)	6.16 lb (2.8 Kg)
Note		Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 2.4 Support TAIWAN EXCELLENCE 2010	Windows® XP Embedded, Windows® XP, Windows® 7, Linux 2.4 Support

Note: All specifications are subject to change without notice.

BOXER LITE Series - Fanless Embedded Controller Solutions

Model		AEC-6420	AEC-6410
		Machine Controller, Building Automation, Factory Automation	Machine Controller, Building Automation, Factory Automation
CPU		Intel® Atom™ N270 processor, 1.6 GHz	AMD Geode™ LX800 500 MHz
Chipset		Intel® 945GSE + ICH7M	AMD Geode™ LX
System Memory		DDR2 SDRAM SODIMM x 1, Max. 2 GB	DDR RAM SODIMM x 1, Max. 512 MB
Display Interface	VGA	DB-15 x 1, shared system memory up to 224MB/ DVMT 3.0	DB-15 x 1, shared system memory up to 254MB
	DVI	—	—
	Others	—	—
Storage Device	SSD	—	—
	HDD	2.5" SATA 1.5Gb/s /IDE Slim Hard Disk Drive bay x 1 (optional)	2.5" SATA/IDE Slim Hard Disk Drive bay x 1 (optional)
Network	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2
	Wireless	—	—
Front I/O	USB Host	—	—
	LAN	—	—
	Serial Port	—	—
	DIO	—	—
	Audio	—	—
	KB/MS	—	—
	Others	Power Switch x 1, Print Port x 1	Power switch x 1
Rear I/O	USB Host	USB2.0 x 4	USB2.0 x 4
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial Port	RS-232 x 1, RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1
	DIO	—	—
	Audio	Line-in/Line-out/Mic-in x 1	Line-in/Line-out/Mic-in x 1
	KB/MS	—	—
	Others	VGA x 1, Power inlet x 1	VGA x 1, Power inlet x 1, Print Port x 1
Expansion	PCIe [x1]	—	—
	PCI	—	—
	Mini Card	—	—
	Mini PCI	—	—
	Others	—	—
Indicator	Front	Power LED x 1, Hard Disk Drive LED x 1	Power LED x 1, Hard Disk Drive LED x 1
	Rear	—	—
Power Requirement		DC Input 8.5~19V	DC Input 12V
Power Consumption		Intel® Atom™ N270, 1.05A @DC 19V	AMD LX800, 0.86A@DC 12V
System Cooling		Passive Cooling	Passive Cooling
Mounting		Wallmount	Wallmount
Operating Temperature		32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 104°F (0°C ~ 40°C) (LX800/CompactFlash™)
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	14°F ~ 140°F (-10°C ~ 60°C)
Anti-Vibration		3 g rms / 5 ~ 500Hz / operation – CompactFlash™ or SSD	5 g rms/ 5~500Hz/ Random Operation - CompactFlash™
Anti-Shock		50 G peak acceleration (11 msec. duration) – CompactFlash™ or SSD	50 G Peak Acceleration (11 msec. Duration) - CompactFlash™
MTBF		50,000	40,000
Certification	EMC	CE /FCC Class A	CE /FCC Class A
	Safety	—	—
Dimension (W x H x D)		7.1"(W) x 2.6"(H) 4.7"(D) (180mm x 119mm x 66mm)	7.1" (W) x 2.6" (H) x 4.7" (D) (180mm x 66mm x 119mm)
Gross Weight		6.16 lb (2.8 Kg)	6.16 lb (2.8 Kg)
Note		Windows® XP Embedded, Windows® XP, Linux 2.4 Support	Windows® XP Embedded, Windows® XP, Windows® CE Support

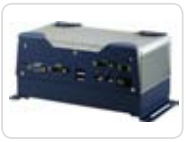
BOXER Series - Fanless Embedded Controller Solutions

Model		AEC-6876 New	AEC-6872 New
		Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management
CPU		Intel® Core™ i5/i3/Celeron® processor	Intel® Atom™ D510 1.6GHz
Chipset		Intel® QM67	Intel® ICH8M
System Memory		DDR3 1066/1333, Max. 16GB	200-pin DDR2 SODIMM x 2, Max. 4GB
Display Interface	VGA	DB-15 x 1 (optional 2nd VGA)	DB-15 x 1,shared system memory up to 384MB/ DVMT 4.0
	DVI	DVI-D x 1 (optional 2nd DVI), support 1920 x 1200 @ 60 Hz	—
	HDMI	HDMI x 1, support 1920 x 1200 @ 60 Hz	—
	Others	—	—
Storage Device	SSD	CFast™ slot	Type 2 CompactFlash™ Slot x 1 (Inside)
	HDD	SATA 6.0Gb/s x 1 (SATA 0, 2)	SATA 1.5Gb/s HDD bay x 1
Network	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet
	Wireless	Optional by Mini Card	—
Front I/O	USB Host	—	—
	LAN	—	—
	Serial Port	RS-232 x 3	RS-232 x 8
	DIO	—	—
	Audio	—	—
	KB/MS	—	—
	Others	Power button x 1	LPT x 1
Rear I/O	USB Host	USB2.0 x 4	USB2.0 x 4
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial Port	RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1
	DIO	—	—
	Audio	Mic-in, Line-in, Line-out	Line-out x 1, Mic-in x 1
	KB/MS	PS/2 KBx 1+MS x 1	PS/2 x 2
	Others	Power input x 1	DB-15 x 1, Power button x 1, Power inlet x 1, SYS LED x 1, HDD LED x 1
Expansion	PCIe [x1]	1	1 (TF-AEC-6872-A1/B1 Model)
	PCI	—	1 (TF-AEC-6872-A2/B1 Model)
	Mini Card	1	1
	Mini PCI	—	1
	Others	—	—
Indicator	Front	Power LED x 1, Hard Disk Drive active LED x 1	System LED x 1, HDD LED x 1
	Rear	—	—
Power Requirement		DC-in 12V, with DC jack lockable, DC 9 ~ 30V with 3-pin terminal block	DC 9-30V / 12V (Optional A or B Model)
Power Consumption		—	—
System Cooling		Passive Cooling	Passive Cooling
Mounting		Wallmount	Wallmount
Operating Temperature		No Airflow 32°F ~ 122°F (0°C ~ 50°C) Wide Temperature CFD with WT RAM x 2 / Ambient with Airflow 5°F ~ 131°F (-15°C ~ 55°C) Wide Temperature CFD with WT RAM x 2	Ambient with Airflow 14°F ~ 131°F (-10°C ~ 55°C)
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 g rms/ 5 ~ 500Hz/ operation – CFD 1 g rms/ 5~ 500Hz/ operation – HDD	5 g rms / 5 ~ 500Hz / operation – CFD, 1 g rms / 5 ~ 500Hz / operation – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD	50 G peak acceleration (11 msec. duration) – CFD
MTBF		—	—
Certification	EMC	CE/FCC class A	CE/FCC class A
	Safety	—	—
Dimension (W x H x D)		8.19"(W) x 4.02"(H) x 9.37"(D) (208mmx 102mm x 238mm)	8.4"(W) x 3.7"(H) x 9.4"(D) (214mm x 94.8mm x 237.8mm)
Gross Weight		13.2 lb (6 Kg)	12.76 lb (5.8 Kg)
Note		Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 10 Support	

Note: All specifications are subject to change without notice.

System Level Products

BOXER Series - Fanless Embedded Controller Solutions



Model		AEC-6860	AEC-6841
		Entertainment, Car Parking System	Building Automation, Environmental Monitoring
CPU		Intel® Core™ 2 Duo (up to 1.6 GHz)	Intel® Atom™ N270 processor, 1.6 GHz
Chipset		Intel® 945GME + ICH7M	Intel® 945GSE + ICH7M
System Memory		DDR2 SODIMM x 1, Max. 2GB	DDR2 SDRAM SODIMM x 1, Max. 2 GB
Display Interface	VGA	DB-15 x 1, shared system memory up to 224MB/ DVMT 3.0	DB-15 x 1, shared system memory up to 224MB/ DVMT 3.0
	DVI	DVI-D x 1	—
	Others	LVDS x 1	—
Storage Device	SSD	CompactFlash™ slot inside	CompactFlash™ Slot inside
	HDD	Optional 2.5" SATA 1.5Gb/s Hard Disk Drive + Slim CD-ROM Drive, Optional 3.5" SATA 1.5Gb/s Hard Disk Drive Module , Optional Dual 2.5" Slim SATA 1.5Gb/s Hard Disk Drive Module	2.5" SATA 1.5Gb/s /IDE Slim Hard Disk Drive Bay (optional)
Network	LAN	Gigabit Ethernet, RJ-45 x 1	10/100Base-TX x 1, Gigabit Ethernet x 1
	Wireless	—	—
Front I/O	USB Host	USB2.0 x 2	USB2.0 x 2
	LAN	—	—
	Serial Port	—	RS-232 x 1, RS-232/422/485 x 1
	DIO	—	—
	Audio	Line-in/ Line-out/ Mic-in x 1 by an extension cable	Line-in/Line-out/Mic-in x 1
	KB/MS	—	PS/2 x 1
	Others	Power Switch x 1, Reset Button x 1, LVDS x 1, S-video x 1	Power Switch x 1, Reset Button x 1, DB-15 x 1, Power input x 1
Rear I/O	USB Host	USB2.0 x 2	USB2.0 x 2
	LAN	RJ-45 x 1	RJ-45 x 2
	Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 2
	DIO	—	DIO x 1
	Audio	—	—
	KB/MS	PS/2 x 1	—
	Others	Power input x 1, DB-15 x 1	—
Expansion	PCIe [x1]	—	—
	PCI	—	—
	Mini Card	—	1 (Version A)
	Mini PCI	1	1 (Version B)
	Others	—	—
Indicator	Front	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive LED x 1
	Rear	—	—
Power Requirement		DC-in 9 ~ 30V	DC-in 9-30V
Power Consumption		Intel® Core™ 2 Duo 1.6 GHz (T5500), 2.63A@12V	Intel® Atom™ N270 1.6GHz, 0.87A@DC 12V
System Cooling		Passive Cooling	Passive Cooling
Mounting		Wallmount/ Desktop	Wallmount
Operating Temperature		Ambient with Airflow 32°F ~ 122°F (-15°C ~ 50°C) – Core™ 2 Duo 1.6 GHz- CompactFlash™ 32°F ~ 122°F (0°C ~ 50°C) – Core™ 2 Duo 1.6 GHz - Automotive HDD	Ambient with Airflow 5°F ~ 122°F (-15°C ~ 50°C) (CompactFlash™) 14°F ~ 122°F (-10°C ~ 50°C) (Hard Disk Drive)
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 g rms / 5 ~ 500Hz / operation (CFD), 1 g rms / 5 ~ 500Hz / operation (HDD)	5 g rms /5 ~ 500Hz / operation (CompactFlash™) 1 g rms/ 5 ~ 500Hz/ operation (HDD)
Anti-Shock		100 G peak acceleration (11 msec. duration) - DC model	50 G peak acceleration (11 msec. duration) (CompactFlash™) 20 G peak acceleration (11 msec. duration) (Hard Disk Drive)
MTBF		50,000	54,000
Certification	EMC	CE /FCC Class A	CE /FCC Class A
	Safety	—	—
Dimension (W x H x D)		8.35" (W) x 2.53" (H) x 6.14"(D) (212mm x 64mm x 156mm)	8.35" (W) x 2.52" (H) x 4.21" (D) (212mm x 64mm x 107mm)
Gross Weight		10.34 lb (4.7 Kg)	8.36 lb (3.8Kg)
		TAIWAN EXCELLENCE 2008	

System Level Products

BOXER Series - Fanless Embedded Controller Solutions

Model		AEC-6831	AEC-6811
		Building Automation, SCADA	Building Automation, Factory Automation
CPU		Intel® Atom™ N270 processor, 1.6 GHz	AMD Geode™ LX800 500 MHz
Chipset		Intel® 945GSE + ICH7M	AMD Geode™ LX
System Memory		DDR2 SDRAM SODIMM x 1, Max. 2 GB	DDR RAM SODIMM x 1, Max. 512 MB
Display Interface	VGA	DB-15 x 1, shared system memory up to 224MB/ DVMT 3.0	DB-15 x 1, shared system memory up to 254MB
	DVI	DVI-I x 1	—
	Others	—	—
Storage Device	SSD	CompactFlash™ Slot	CompactFlash™ Slot (Version B)
	HDD	2.5" SATA 1.5Gb/s/ IDE Slim Hard Disk Drive bay x 1 (optional)	2.5" Slim Hard Disk Drive Bay (SATA 1.5Gb/s: Version A; IDE: Version B)
Network	LAN	Gigabit Ethernet, RJ-45 x 2	10/100Base-TX
	Wireless	—	—
Front I/O	USB Host	USB2.0 x 2	USB2.0 x 4
	LAN	—	—
	Serial Port	RS-232/422/485 x 1	RS-232/422/485 x 1
	DIO	—	—
	Audio	—	Line-in/Line-out/Mic-in x 1
	KB/MS	—	PS/2 x 1
	Others	Power Switch x 1, Reset Button x 1, CompactFlash™ slot x 1	Power Switch x 1, Reset Button x 1, DB-15 x 1, Power input x 1
Rear I/O	USB Host	USB2.0 x 2	—
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial Port	RS-232 x 1	RS-232 x 1, RS-232/422/485 x 2
	DIO	—	DIO x 1
	Audio	Line-in/Line-out/Mic-in x 1	—
	KB/MS	—	—
	Others	DB-15 x 1, DVI-I x 1, Power input x 1	—
Expansion	PCIe [x1]	—	—
	PCI	—	—
	Mini Card	—	—
	Mini PCI	1	1
	Others	—	—
Indicator	Front	Power switch x 1, Power LED x 1, Hard Disk Drive LED x 1	Power LED x 1, Hard Disk Drive LED x 1
	Rear	—	—
Power Requirement		DC-in 9-30V	DC-in 9-30V
Power Consumption		Intel® Atom™ N270 1.6 GHz 1.47A @ DC 9V	AMD Geode™ LX800 500 MHz, 0.4A@DC 30V
System Cooling		Passive Cooling	Passive Cooling
Mounting		Wallmount	Wallmount
Operating Temperature		Ambient with Airflow 5°F ~ 131°F (-15°C ~ 55°C) (CompactFlash™) 32°F ~ 122°F (0°C ~ 50°C) (Hard Disk Drive)	Ambient with Airflow 5°F ~ 131°F (-15°C ~ 55°C) (CompactFlash™) 32°F ~ 122°F (0°C ~ 50°C) (Hard Disk Drive)
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 g rms /5 ~ 500Hz / operation (CompactFlash™) 1 g rms/ 5 ~ 500Hz/ operation (HDD)	5 g rms/ 5 ~ 500Hz/ operation (CompactFlash™) 1 g rms/ 5 ~ 500Hz/ operation (HDD)
Anti-Shock		50 G peak acceleration (11 msec. duration) (CompactFlash™) 20 G peak acceleration (11 msec. duration) (Hard Disk Drive)	50 G peak acceleration (11 msec. duration) (CompactFlash™) 20 G peak acceleration (11 msec. duration) (Hard Disk Drive)
MTBF		60,000	60,000
Certification	EMC	CE /FCC Class A	CE /FCC Class A
	Safety	—	—
Dimension (W x H x D)		9.5"(W) x 3.4"(H) x 4.2"(D) (240mm x 86mm x 107mm)	9.5" (W) x 2.5" (H) x 4.2" (D) (240mm x 64mm x 107mm)
Gross Weight		8.36 lb (3.8Kg)	8.36 lb (3.8Kg)

TAIWAN EXCELLENCE 2010

Note: All specifications are subject to change without notice.

System Level Products

BOXER S Series - Fanless Embedded Controller Solutions

Model		AEC-6967 New	AEC-6924
		Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management
CPU		Intel® Core™ i5/i3/Celeron processor	Intel® Core™ 2 Duo Processor
Chipset		Intel® QM67	Intel® GS45 + ICH9M
System Memory		DDR3 SODIMM x 2, support DDR3 1066/1333, Max. 16GB	204-pin DDR3 SODIMM x 2, Max. 4GB
Display Interface	VGA	DB-15 x 1, shared system memory above 512MB/ DVMT 5.0	DB-15 x 1 (1 by Y-cable)
	DVI	DVI-D x 1 (optional 2nd DVI), support 1920 x 1200 @ 60 Hz	DVI-I x 1, DVI-D x 1, shared system memory up to 512MB/ DVMT 5.0
	HDMI	HDMI x 1, support 1920 x 1200 @ 60 Hz	—
	Others	Dual-channel 24-bit LVDS (optional extension kit)	—
Storage Device	SSD	CFast™ slot	Type 2 CompactFlash™ Slot x 1
	HDD	SATA 6.0Gb/s x 2 (SATA 0, 2), SATA 3.0Gb/s x 2 (SATA 2, 3), Support RAID 0,1,5,10	SATA 3.0 Gb/s HDD bay x 1
Network	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet
	Wireless	Optional by Mini Card	—
Front I/O	USB Host	USB2.0 x 2	4
	LAN	—	RS-232 x 4, RS-232/422/485 x 4
	Serial Port	RS-232 x 1 , RS-232/422/485 x 1, both support optional 2.5KV Isolation optional extra RS-232 x 6	—
	DIO	8-bit programmable ,optional 2.5KV Isolation protection	—
	Audio	—	Line-out x 1
	KB/MS	PS/2 x 1	—
	Others	Power button x 1, Reset button x 1	e-SATA x 1, LPT x 1, Reset button x 1, CompactFlash™ slot x 1
Rear I/O	USB Host	USB2.0 x 4	USB2.0 x 4
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial Port	RS-232 x 2	—
	DIO	—	—
	Audio	Mic-in, Line-in, Line-out	Line-out x 1
	KB/MS	—	—
	Others	Power input x 1	DVI-I x 1, DVI-D x 1, Power inlet x 1, System LED x 1
Expansion	PCIe [x1]	2 (optional)	1
	PCI	2 (optional, limited 2.1A@12V)	1
	Mini Card	2 (optional)	2
	Mini PCI	—	1
	Others	SIM x 1 (optional)	—
Indicator	Front	System LED x 1, HDD LED x 1	—
	Rear	—	System LED x 1, HDD LED x 1
Power Requirement		DC-in 9~30V input, optional 100~240V	DC 9-48 V
Power Consumption		—	—
System Cooling		Passive Cooling	Passive cooling
Mounting		Wallmount	Wallmount
Operating Temperature		Without Airflow, with Wide-temp storage & RAM 32°F ~ 131°F (0°C ~ 55°C) -35W TDP CPU 32°F ~ 149°F (0°C ~ 65°C) -35W TDP CPU. not include Riser Card Ambient with Airflow, with Wide-temp storage & RAM 32°F ~ 149°F (0°C ~ 65°C) -35W TDP CPU 32°F ~ 167°F (0°C ~ 75°C) -35W TDP CPU. not include Riser Card	5°F ~ 131°F (-15°C ~ 55°C)
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 g rms/ 5 ~ 500Hz/ operation – CFD 1 g rms/ 5~ 500Hz/ operation – HDD	5 g rms/ 5 ~ 500Hz/ operation – CFD 1 g rms/ 5 ~ 500Hz/ operation – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD	50 G peak acceleration (11 msec. duration) – CFD
MTBF		—	—
Certification	EMC	CE/FCC class A	CE/FCC class A
	Safety	—	—
Dimension (W x H x D)		8.19" x 4.02" x 9.37" (208mm x 102mm x 238mm)	8.43" (W) x 4.73" (H) x 9.36" (D) (214mm x 120.2mm x 237.8mm)
Gross Weight		—	15.4 lb (7 Kg)
		Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 10 Support	

BOXER S Series - Fanless Embedded Controller Solutions

Model		AEC-6940	AEC-6930
		Machine Control, Data Processing, Fleet Management, Data Management	Machine Control,Data Processing, Fleet Management,Data Management
CPU		Intel® Core™ 2 Duo Processor	Intel® Core™ 2 Duo L7500 1.6 GHz
Chipset		Intel® GM45 + ICH9M	Intel® GME965 + ICH8M
System Memory		204-pin DDR3 SODIMM x 2, Max. 4GB	200-pin DDR2 SODIMM x 2, Max. 4GB
Display Interface	VGA	DB-15, shared system memory up to 512MB/ DVMT 5.0	By DVI to VGA adapter x 1
	DVI	—	DVI-I x 1, shared system memory up to 384MB/ DVMT 4.0
	Others	—	—
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1	Type 2 CompactFlash™ Slot x 1
	HDD	SATA 3.0Gb/s HDD bay x 1	SATA 3.0Gb/s HDD bay x 1
Network	LAN	Gigabit Ethernet	Gigabit Ethernet
	Wireless	—	—
Front I/O	USB Host	4	—
	LAN	RJ-45 x 2	RJ-45 x 4
	Serial Port	—	—
	DIO	—	—
	Audio	Line-in/ Line-out/ Mic-in, requires an extension cable	Line-in/ Line-out/ Mic-in, requires an extension cable
	KB/MS	PS/2	—
	Others	Power button x 1, Express Card socket x 1, Reset button x 1, SYS LED x 1, HDD LED x 1, CompactFlash™ slot x 1	Cardbus slot x 1, Power button x 1, Reset button x 1, SYS LED x 1, HDD LED x 1, CompactFlash™ slot x 1
Rear I/O	USB Host	—	4
	LAN	—	—
	Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 2, RS-232/422/485 x 2
	DIO	—	—
	Audio	—	—
	KB/MS	—	1
	Others	Power inlet x 1	Power inlet x 1, DVI-I x 1
Expansion	PCIe [x1]	1 (version A), PCIe [x16] x 1 (A/B version)	—
	PCI	1 (version B)	2
	Mini Card	1	—
	Mini PCI	—	—
	Others	Express Card socket x 1	Card bus x 1
Indicator	Front	System LED x 1, HDD LED x 1	System LED x 1, HDD LED x 1
	Rear	—	—
Power Requirement		DC 9-30V	DC 9-30V
Power Consumption		DC 19V/ 2.84A	DC 19V/ 1.97A(L7500)
System Cooling		Passive cooling	Passive cooling
Mounting		Wallmount	Wallmount
Operating Temperature		No Airflow 32°F ~ 131°F (0°C ~ 55°C) Wide Temperature CFD with WT RAM x 2 / Ambient with Airflow 5°F ~ 149°F (-15°C ~ 65°C) Wide Temperature CFD with WT RAM x 2	No Airflow 32°F ~ 131°F (0°C ~ 55°C) Wide temp. CFD with WT RAM x 2 / Ambient with Airflow 5°F ~ 149°F (-15°C ~ 65°C) Wide temp. CFD with WT RAM x 2
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 g rms/ 5 ~ 500Hz/ operation – CFD 1 g rms/ 5 ~ 500Hz/ operation – HDD	5 g rms/ 5 ~ 500Hz/ operation – CFD, 1 g rms/ 5 ~ 500Hz/ operation – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD	50 G peak acceleration (11 msec. duration) – CFD
MTBF		37,000	32,000
Certification	EMC	CE/FCC class B	CE/FCC class A
	Safety	—	—
Dimension (W x H x D)		9.9" (W) x 4" (H) x 9.4" (D) (251.2mm x 102.5mm x 237.8mm)	8.43" (W) x 3.73" (H) x 9.36" (D) (214mm x 94.8mm x 237.8mm)
Gross Weight		15.4 lb (7 Kg)	12.76 lb (5.8 Kg)

TAIWAN EXCELLENCE 2010

Note: All specifications are subject to change without notice.

System Level Products

BOXER S Series - Fanless Embedded Controller Solutions

Model		AEC-6920	AEC-6915	AEC-6911
		Machine Control,Data Processing, Fleet Management,Data Management	Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management
CPU		Intel® Core™ 2 Duo Processor	Intel® Pentium M 2.0 GHz (760)	Intel® Atom™ N270 1.6 GHz
Chipset		Intel® 945GME + ICH7M	Intel® 915GM+ICH6M	Intel® 945GSE+ICH8M
System Memory		200-pin DDR2 SODIMM x 1, Max. 2GB	200-pin DDR2 SODIMM x 1, Max. 2GB	200-pin DDR2 SODIMM x 1, Max. 2GB
Display Interface	VGA	DB-15, shared system memory up to 224MB/ DVMT 3.0	DB-15 x 1, shared system memory up to 128M	DB-15 x 1, shared system memory up to 244MB/ DVMT 3.0
	DVI	—	—	—
	Others	—	—	—
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1	Type 2 CompactFlash™ Slot x 1 (inside)	Type 2 CompactFlash™ Slot x 1
	HDD	SATA 1.5Gb/s HDD bay x 1	SATA 3.0Gb/s HDD bay x 1	SATA 1.5Gb/s HDD bay x 1
Network	LAN	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet
	Wireless	—	—	—
Front I/O	USB Host	—	4	—
	LAN	—	RJ-45 x 1	—
	Serial Port	—	RS-232 x 3, RS-232/422/485 x 1	—
	DIO	—	—	—
	Audio	Line-in/ Line-out/ Mic-in, requires an extension cable	Line-in/ Line-out/ Mic-in, requires an extension cable	Line-in/ Line-out/ Mic-in, requires an extension cable
	KB/MS	—	1	—
	Others	VGA x 1, Cardbus slot x 1, CompactFlash™ slot x 1, S-video x 1, SYS LED x 1, HDD LED x 1, Reset button x 1	VGA x 1, Reset button x 1, DVD-ROM x 1, Power button x 1, Power inlet x 1	VGA x 1, Cardbus slot x 1, CompactFlash™ slot x 1, SYS LED x 1, HDD LED x 1, Reset button x 1
Rear I/O	USB Host	4	—	4
	LAN	2	—	RJ-45 x 2
	Serial Port	RS-232 x 3, RS-232/422/485 x 1	—	RS-232 x 3, RS-232/422/485 x 1
	DIO	—	—	—
	Audio	—	—	—
	KB/MS	1	—	1
	Others	Power Inlet x 1	—	—
Expansion	PCIe [x1]	[x16] x 1	—	—
	PCI	1	4	2
	Mini Card	—	—	—
	Mini PCI	1	—	1
	Others	Card bus x 1	—	Card bus x 1
Indicator	Front	System LED x 1, HDD LED x 1	System LED x 1, HDD LED x 1	System LED x 1, HDD LED x 1
	Rear	—	—	—
Power Requirement		DC 9-30V	DC 9-30V	DC 9-30V
Power Consumption		DC 12V/3.58A (T7200)	DC 12V/4.09A (Pentium® M 760)	DC 12V/3.58A (T7200)
System Cooling		Passive cooling	Passive cooling	Passive cooling
Mounting		Wallmount	Wallmount	Wallmount
Operating Temperature		Ambient with Airflow: 5°F ~ 131°F (-15°C ~ 55°C) (W/ 760/WT CFD) 5°F ~ 122°F (-15°C ~ 50°C) (W/ 760/WT HDD)	Ambient with Airflow: 5°F ~ 131°F (-15°C ~ 55°C) (W/ 760/WT CFD) 5°F ~ 122°F (-15°C ~ 50°C) (W/ 760/WT HDD)	No Airflow: 5°F ~ 131°F (-15°C ~ 55°C) (W/ N270, WT CFD) 14°F ~ 122°F (-10°C ~ 50°C) (W/ N270, WT HDD)
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 g rms/ 5 ~ 500Hz/ operation – CFD, 1 g rms/ 5 ~ 500Hz/ operation – HDD	5 g rms/ 5 ~ 500Hz/ operation – CFD, 1 g rms/ 5 ~ 500Hz/ operation – HDD	5 g rms/ 5 ~ 500Hz/ operation – CFD, 1 g rms/ 5 ~ 500Hz/ operation – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD	50 G peak acceleration (11 msec. duration) – CFD	50 G peak acceleration (11 msec. duration) – CFD
MTBF		40,000	40,000	40,000
Certification	EMC	CE/FCC class A	CE/FCC class A	CE/FCC class A
	Safety	UL, LVD	—	—
Dimension (W x H x D)		8.4"(W) x 3.7"(H) x 9.4"(D) (214mm x 94.8mm x 237.8mm)	6.1" (W) x 8.9" (H) x 9.4" (D) (154.3mm x 225.8mm x 237.8mm)	8.4"(W) x 3.7"(H) x 9.4"(D) (214mm x 94.8mm x 237.8mm)
Gross Weight		12.76 lb (5.8 Kg)	18.04 lb (8.2 Kg)	12.76 lb (5.8 Kg)
Note		TAIWAN EXCELLENCE 2008	TAIWAN EXCELLENCE 2009	

System Level Products

BOXER S Series - Fanless Embedded Controller Solutions

Model		AEC-6511	AEC-6521
		Food Industry	Food Industry
CPU		Intel® Atom™ N270 1.6GHz	Intel® Atom™ E6x0T series Processors up to 1.6GHz
Chipset		Intel® 945GSE + ICH7M	Intel® EG20T
System Memory		DDR2 SDRAM SODIMM x 1, Max. 2 GB	Onboard DDR2 Memory, Max. 1GB
Display Interface	VGA	DB-15 x 1,shared system memory up to 224MB/ DVMT 3.0	DB-15 x 1
	DVI	—	Optional
	HDMI	—	—
	Others	—	CFast™ Slot x 1
Storage Device	SSD	CompactFlash™ Slot	2.5" SATA HDD x 1
	HDD	2.5" SATA 1.5Gb/s Slim Hard Disk Drive Bay	Gigabit Ethernet, RJ-45 x 2
Network	LAN	Gigabit Ethernet, RJ-45 x 1	Optional by mini-card
	Wireless	Optional by Mini Card	—
Front I/O	USB Host	USB2.0 x 2	—
	LAN	RJ-45 x 1	—
	Serial Port	RS-232 x 1, RS-232/422/485 x 1	Optional Extension Kit
	DIO	—	—
	Audio	—	—
	KB/MS	—	Power ON/OFF Switch x 1 CF slot x 1
	Others	Power input x 1	USB 2.0 X 4
Rear I/O	USB Host	—	RJ-45 x 2
	LAN	—	RS-232 x 1 (optional extra 4), RS-232/422/485 x 1
	Serial Port	—	—
	DIO	—	—
	Audio	—	—
	KB/MS	—	Power input x 1, Power LED x 1, HDD LED x 1
	Others	Power switch x 1	—
Expansion	PCIe [x1]	—	—
	PCI	—	2
	Mini Card	1	—
	Mini PCI	1	Optional CAN Bus
	Others	—	Power LED x 1, Hard Disk Drive active LED x 1
Indicator	Front	—	—
	Rear	—	DC-in 12V/DC-in 9 ~ 30V
Power Requirement		DC-in 12 V input	TBD
Power Consumption		Intel® Atom™ N270 1.6GHz, 1.12A @ 12V	Passive
System Cooling		Passive Cooling	Wallmount
Mounting		Wallmount	-4°F ~ 149°F(-20°C ~ 65°C) w/o Airflow -4°F ~ 158°F(-20°C ~ 70°C) w/ Airflow
Operating Temperature		-4°F ~ 131°F (-20°C ~ 55°C)	-20°C ~ 70°C (-4°F ~ 158°F)
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)	5g rms / 5 ~ 500Hz / operation – CFD 1g rms / 5~ 500Hz / operation – HDD
Anti-Vibration		5g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5~ 500Hz/ operation – HDD	50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD 20 G peak acceleration (11 msec. duration) – HDD	—
MTBF		—	CE /FCC Class A
Certification	EMC	CE /FCC Class A	—
	Safety	—	8.35" (W) x 6.14" (H) x 2.52" (D) (212mm x 156mm x 63.9mm)
Dimension (W x H x D)		13.23" x 11.57" x 10.24" (336mm x 294mm x 260mm)	8.36 lb (3.8 Kg)
Gross Weight		6.4 lb (2.9 kg)	
Note		Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 2.4 Support	

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Note: All specifications are subject to change without notice.

In-Vehicle Embedded Controller Solutions

Model		AEV-6312
Applications		Vehicle Controller, Fleet Management
CPU		Intel® Atom™ D510 1.6 GHz
Chipset		Intel® ICH8M
System Memory		200-pin DDR2 SODIMM x 1, Max. 2GB
Display Interface	VGA	DB-15 x 1, shared system memory up to 384MB/ DVMT 4.0
	DVI	—
	Others	—
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1
	HDD	SATA 1.5Gb/s HDD bay x 1
Network	LAN	Gigabit Ethernet
	Wireless	Optional by Mini card
Front I/O	USB Host	2
	LAN	—
	Serial Port	1
	DIO	—
	Audio	Line-out x 1
	KB/MS	—
	Others	Power button x 1, SYS LED x 1, HDD LED x 1, SMA connector x 3
Rear I/O	USB Host	USB2.0 x 2
	LAN	RJ-45 x 2
	Serial Port	1
	DIO	—
	Audio	—
	KB/MS	—
	Others	Power inlet x 1, VGA x 1
Expansion	PCIe [x1]	—
	PCI	—
	Mini Card	2
	Mini PCI	—
	Others	—
Indicator	Front	System LED x 1, HDD LED x 1
	Rear	—
Power Requirement		DC 9-36V
Power Consumption		—
System Cooling		Passive cooling
Mounting		Wallmount
Operating Temperature		—
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 g rms/ 5 ~ 500Hz/ operation – CFD 1 g rms/ 5 ~ 500Hz/ operation – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – CFD
MTBF		—
Certification	EMC	CE/FCC
	Safety	—
Dimension (W x H x D)		—
Gross Weight		7.7 lb (3.5 Kg)
Note		—

Turn-Key (EmBOX) Solutions

Model		TKS-G20-LN05 Rev. B	TKS-G21-CV05
Applications		POS, KIOSK, Gaming, Digital Signage, Industrial Automation	POS, KIOSK, Gaming, Digital Signage, Industrial Automation
CPU		Onboard Intel® Atom™, D525, 1.8 GHz Processor	Onboard Intel® Atom™ D2700 Processor up to 2.13 GHz
Chipset		Intel® ICH8M	Intel® Atom™ D2700 + NM10
System Memory		200-pin DDR3 SODIMM x1, Max. 4GB(DDR3 667/800)	204-pin DDR3 SODIMM x 1, Max. 4 GB (DDR3 667/1066)
Display Interface	VGA	D-SUB 15 x 1	D-SUB 15 x 1
	DVI	—	—
	Others	—	—
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1	CFast™ x1
	HDD	2.5" Hard Disk Drive Bayx1	2.5" Hard Disk Drive Bay x 1
Network	LAN	10/100/1000 Base-TX Ethernet, RJ-45 x 2	Realtek RTL 8111E, 10/100/1000 Base-TX Ethernet
	Wireless	802.11b/g/n WiFi (Optional)	802.11b/g/n WiFi (Optional)
Front I/O	USB Host	—	USB Type A x 2
	LAN	—	—
	Serial Port	COM x 4	COM x 3
	DIO	8-bit Programmable x1 (non-isolation)	—
	Audio	—	Line-out, Mic-in
	KB/MS	—	—
	Others	—	—
Rear I/O	USB Host	USB Type A x 6	USB Type A x 2
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial Port	COM x 2	COM x 3
	DIO	—	8-bit (Programmable) x 1
	Audio	Line-out, Mic-in	—
	KB/MS	Through USB port	Through USB port
	Others	—	—
Expansion	PCIe	—	—
	PCI	—	—
	Mini Card	Mini Card x 1 (Internal)	Mini Card x 1 (Internal)
	Mini PCI	—	—
	Others	—	—
Indicator	Front	—	Power LED x 1, HDD LED x 1
	Rear	Power LED x 1, HDD LED x 1	—
Power Requirement		For DC Type: ATX type, +12V Input	+12V DC Input
Power Consumption		Intel® Atom™ D525, DDR3 1GB 1.29A@+12V	—
System Cooling		Fanless	Fanless
Mounting		Desktop or Wallmount (optional)	Desktop or Wallmount (optional)
Operating temperature		32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature		-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Anti-Vibration		0.5g rms/ 5 ~ 502Hz/ random operation (Internal Hard Disk Drive active Module)	5g rms/ 5 ~ 500Hz/ random operation (CFast™) 1g rms/ 5 ~ 500Hz/ random operation (Internal Hard Disk Drive active Module)
Anti-Shock		10g peak acceleration (11 msec. duration) (Hard Disk Drive Module)	50G peak acceleration (11 msec. duration) (CFast™) 20G peak acceleration (11 msec. duration) (Hard Disk Drive Module)
MTBF		70,000	—
Certification	EMC	CE/FCC Class A	CE/FCC Class A
	Safety	—	—
Dimension (W x H x D)		10" x 5.75" x 2.48" (254mm x 146mm x 63mm)	7" x 7" x 1.97" (180mm x 180mm x 50mm)
Gross Weight		Heavy duty steel (2.42 kg/ 5.33 lb)	Heavy duty steel (1.78 kg/ 3.92 lb)

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Note: All specifications are subject to change without notice.

System Level Products

Turn-Key (EmBOX) Solutions

Model		TKS-G20-9455	TKS-G20-9310
		POS, KIOSK, Gaming, Digital Signage, Industrial Automation	POS, KIOSK, Gaming, Digital Signage, Industrial Automation
CPU		Onboard Intel® Atom™ N270 Processors Up To 1.6 GHz	Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M (65nm) Processors Up To 2.16 GHz
Chipset		Intel® 945GSE + ICH7M	Intel® 945GME + ICH7M
System Memory		200 pin DDR2 SODIMM x 1, Max. 2 GB (DDR2 400/533)	200 pin DDR2 SODIMM x 1, Max. 2 GB (DDR2 400/533/667)
Display Interface	VGA	D-SUB 15 x 1	D-SUB 15 x 1
	DVI	DVI-I x 1	DVI-D x 1 (Optional)
	Others	S-Video x 1 & Composite Video x 1 (Optional)	S-Video x 1 & Composite Video x 1 (Optional)
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1	Type 2 CompactFlash™ Slot x 1
	HDD	2.5" SATA 1.5Gb/s Hard Disk Drive Bay x 1	2.5" SATA 1.5Gb/s Hard Disk Drive Bay x 1
Network	LAN	10/100/1000Base-TX	10/100/1000Base-TX
	Wireless	802.11b/g WiFi (Optional)	802.11b/g WiFi (Optional)
Front I/O	USB Host	—	—
	LAN	—	—
	Serial Port	9-pin D-Sub x 2	—
	DIO	8-bit Programmable x 1 (Optional)	8-bit Programmable x 1 (Optional)
	Audio	—	—
	KB/MS	—	—
	Others	S-Video x 1 & Composite Video x 1 (Optional)	—
Rear I/O	USB Host	USB Type A x 4	USB Type A x 4
	LAN	RJ-45 x 2	RJ-45 x 1
	Serial Port	9-pin D-Sub x 2	9-pin D-Sub x 2
	DIO	—	—
	Audio	Line-out, Mic-in	Line-out, Mic-in
	KB/MS	PS/2 x 1	PS/2 x 1
	Others	—	—
Expansion	PCIe	—	—
	PCI	—	—
	Mini Card	—	—
	Mini PCI	Mini-PCI x 1 (Internal)	Mini-PCI x 1 (Internal)
	Others	—	—
Indicator	Front	Power LED x 1, HDD LED x 1	Power LED x 1, HDD LED x 1
	Rear	—	—
Power Requirement		For DC Type: +9V ~ +30V Input For AC Type: 100V ~ 240V Input	For DC Type: +9V ~ +30V Input For AC Type: 100V ~ 240V Input
Power Consumption		Intel® Atom™ N270, DDR2 667 2 GB 2.89A@+5V	Core™ 2 Duo/ T7400 2.16 GHz, DDR2 667 1 GB +12V@3.89A
System Cooling		Fanless	Fanless
Mounting		Desktop or Wallmount (optional)	Desktop or Wallmount (optional)
Operating temperature		32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature		-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Anti-Vibration		0.5g rms/ 5 ~ 502Hz/ random operation (Internal Hard Disk Drive active Module)	0.5g rms/ 5 ~ 502Hz/ random operation (Internal Hard Disk Drive active Module)
Anti-Shock		10g peak acceleration (11 msec. duration) (Hard Disk Drive Module)	10g peak acceleration (11 msec. duration) (Hard Disk Drive Module)
MTBF		70,000	70,000
Certification	EMC	CE/FCC Class A	CE/FCC Class A
	Safety	—	—
Dimension (W x H x D)		10" x 5.75" x 2.48" (254mm x 146mm x 63mm)	10" x 5.75" x 2.48" (254mm x 146mm x 63mm)
Gross Weight		Heavy duty steel (2.42 kg/ 5.33 lb)	Heavy duty steel (2.42 kg/ 5.33 lb)

System Level Products

Turn-Key (EmBOX) Solutions

Model		TKS-G30-5315B	TKS-G50-9310	TKS-E50-9456
		POS, KIOSK, Industrial Automation	POS, KIOSK,Gaming, Digital Signage, Industrial Automation	POS, KIOSK, Gaming, Digital Signage, Industrial Automation, Transportation, Vehicle System, Monitoring System
CPU		Onboard AMD Geode™ LX800 series processor	Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M (65nm) Processors Up To 2.16 GHz	Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M (65nm) Processors up to 2.16 GHz
Chipset		AMD Geode™ LX + AMD CS5536	Intel® 945GME + ICH7M	Intel® 945GME+ICH7M
System Memory		200 pin DDR SODIMM x 1, Max 1 GB for DDR333 and 512 MB for DDR400	200 pin DDR2 SODIMM x 1, Max. 2 GB (DDR2 400/533/667)	200 pin DDR2 SODIMM x 1, Max. 2 GB (DDR2 400/533/667)
Display Interface	VGA	D-SUB 15 x 1	D-SUB 15 x 1	D-SUB 15 x 1
	DVI	—	DVI-D x 1 (Optional)	DVI-D x 1
	Others	—	S-Video x 1 & Composite Video x 1 (Optional)	—
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1	Type 2 CompactFlash™ Slot x 1	Type 2 CompactFlash™ Slot x 1
	HDD	2.5" Hard Disk Drive Bayx1	2.5" SATA 1.5Gb/s Hard Disk Drive Bay x 1	2.5" SATA 1.5Gb/s HardDisk Drive Bay x 1
Network	LAN	10/100Base-TX	10/100/1000Base-TX	10/100/1000Base-TX
	Wireless	802.11b/g WiFi (Optional)	802.11b/g WiFi (Optional)	—
Front I/O	USB Host	—	—	—
	LAN	—	—	—
	Serial Port	9-pin D-Sub x 3	—	—
	DIO	8-bit Programmable x 1 (Optional)	8-bit Programmable x 1 (Optional)	—
	Audio	—	—	—
	KB/MS	—	—	—
	Others	—	DVI-D x 1 (Optional), WiFi Antenna (Optional)	—
Rear I/O	USB Host	USB Type A x 4	USB Type A x 4	USB Type A x 4
	LAN	RJ-45 x 2	RJ-45 x 1	RJ-45 x 2
	Serial Port	9-pin D-Sub x 2	9-pin D-Sub x 2	9-pin D-Sub x 4 (2 for optional)
	DIO	—	—	8-bit Programmable x 1 (Optional)
	Audio	Line-out, Mic-in	Line-out, Mic-in	Line-out, Mic-in
	KB/MS	PS/2 x 1	PS/2 x 1	PS/2 x 1
	Others	—	—	Wireless Antenna
Expansion	PCIe	—	—	—
	PCI	—	—	PCI-104
	Mini Card	—	—	—
	Mini PCI	Mini-PCI x 1 (Internal)	Mini-PCI x 1 (Internal)	—
	Others	—	—	—
Indicator	Front	Power LED x 1, HDD LED x 1	Power LED x 1, HDD LED x 1	Power LED x 1, HDD LED x 1
	Rear	—	—	—
Power Requirement		For DC Type: +9V ~ +30V Input For AC Type: 100V ~ 240V Input	For DC Type: +9V ~ +30V Input For AC Type: 100V ~ 240V Input	DC +12V input
Power Consumption		—	Core™ 2 Duo/ T7400 2.16 GHz, DDR2 667 1 GB +12V@3.89A	Intel® Core™ 2 Duo T7400 2.16 GHz, DDRII 667 2 GB 3.02A@+12V
System Cooling		Fanless	Fan	One CPU fan and one system fan
Mounting		Desktop or Wallmount (optional)	Desktop or Wallmount (optional)	Desktop or Wallmount (optional)
Operating temperature		32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature		-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
Anti-Vibration		0.5g rms/ 5 ~ 502Hz/ random operation (Internal Hard Disk Drive active Module)	0.5g rms/ 5 ~ 502Hz/ random operation (Internal Hard Disk Drive active Module)	0.5g rms/ 5 ~ 502Hz/ random operation (Internal Hard Disk Drive active Module)
Anti-Shock		10g peak acceleration (11 msec. duration) (Hard Disk Drive Module)	10g peak acceleration (11 msec. duration) (Hard Disk Drive Module)	10g peak acceleration (11 msec. duration) (Hard Disk Drive Module)
MTBF		90,000	70,000	60,000
Certification	EMC	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
	Safety	—	—	—
Dimension (W x H x D)		10" x 5.75" x 2" (254mm x 146mm x 49mm)	10" x 5.75" x 2.1" (254mm x 146mm x 53mm)	10" x 6.3" x 2.2" (255mm x 160mm x 56mm)
Gross Weight		Heavy duty steel (1.7 kg/ 3.74 lb)	Heavy duty steel (1.76 kg/ 3.88 lb)	Heavy duty steel (1.7 kg/ 3.85 lb)

Note: All specifications are subject to change without notice.

System Level Products

Green Communication Systems

Launching in Q2

Model		GCS-1100i New	GCS-1500i New	GCS-2500 New
Applications		Electric Power Management, Smart Grid, Building Management	Electric Power Management, Smart Grid, Building Management	Electric Power Management, Smart Grid, Building Management
CPU		Intel® Atom™ N270	Intel® Core™ i7/i5 rPGA988, max. TDP 35W	Intel® Core™ i7/i5 rPGA988, max. TDP 35W
Chipset		Intel® 945GSE	Intel® QM57	Intel® QM57
System Memory		Up to 2 GB (DDR2 400/533 MHz, SODIMM x 1)	Up to 8 GB (DDR3 800/1066 MHz, SODIMM x 2)	Up to 8 GB (DDR3 800/1066 MHz, SODIMM x 2)
Display Interface	VGA	1	1	1
	DVI	1	1	1
Storage Device	SSD	Optional	Optional	Optional
	HDD	2.5" HDD x 1	2.5" HDD x 1	3.5" HDD x 1
Network	LAN	10/100/1000Base-TX x 4	10/100/1000Base-TX x 4	10/100/1000Base-TX x 6
Front I/O	USB Host	—	USB2.0 x 4	USB2.0 x 4
Rear I/O	USB Host	USB2.0 x 4	USB2.0 x 4	USB2.0 x 4
	LAN	RJ-45 x 4	RJ-45 x 4	RJ-45 x 6
	Serial Port	COM x 8	COM x 9 (with isolation x 8)	COM x 17 (with isolation x 16)
	DIO	8-bit (4-in/4-out)	8-bit (4-in/4-out)	8-bit (4-in/4-out)
	KB/MS	1	1	1
Expansion	PCI	—	—	2
Indicator	Front	HDD x 1, PWR x 1, LAN x 2, COM x 8	HDD x 1, PWR x 1, LAN x 4, COM x 9	HDD x 1, PWR x 1, LAN x 6, COM x 17
Power Requirement		9~32V DC-in	10~30V DC-in	10~30V DC-in
Power Consumption		Intel® Atom™ N270, 2.5W	Intel® Core™ i7-620M, 35W	Intel® Core™ i7-620M, 35W
System Cooling		Passive Cooling	Passive Cooling	Passive Cooling
Mounting		1U 19" Rackmount	1.5U 19" Rackmount	2.5U 19" Rackmount
Operating temperature		32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0~45°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20~60°C)
Anti-Vibration		1 g rms/ 5~500 Hz/ Operation	1 g rms/ 5~500 Hz/ Operation	1 g rms/ 5~500 Hz/ Operation
Anti-Shock		30 G with 11 m/sec, Operation	30 G with 11 m/sec, Operation	30 G with 11 m/sec, Operation
MTBF		—	—	—
Certification	EMC	CE/FCC	CE/FCC	CE/FCC
Dimension (W x H x D)		16.9" x 11.8" x 1.73" (430mm x 300mm x 44mm)	16.9" x 11.8" x 2.59" (430mm x 300mm x 66mm)	16.9" x 11.8" x 4.33" (430mm x 300mm x 110mm)
Gross Weight		15.4 lb (7 kg)	16.53 lb(7.5 kg)	—
Note		—	—	—

TAIWAN EXCELLENCE 2012

Advanced System Controllers

Model		AIS-Q574	AIS-Q572
Applications		Manufacture Automation, Auto Optical Inspection, Digital Signage, X-Ray Machine	Manufacture Automation, Auto Optical Inspection, Digital Signage, X-Ray Machine
CPU		Intel® Core™ i7/i5/i3 LGA 1156, max. TDP 95W	Intel® Core™ i7/i5/i3 LGA 1156, max. TDP 95W
Chipset		Intel® Q57	Intel® Q57
System Memory		Up to 8 GB (DDR3 1066/1333 MHz, DIMM x 2)	Up to 8 GB (DDR3 1066/1333 MHz, DIMM x 2)
Display Interface	VGA	1	1
	DVI	1	1
Storage Device	HDD	3.5" HDD x 2	3.5" HDD x 1
Network	LAN	10/100/1000Base-TX x 2	10/100/1000Base-TX x 2
	Wireless	—	—
Front I/O	USB Host	USB2.0 x 4	USB2.0 x 4
Rear I/O	USB Host	USB2.0 x 4	USB2.0 x 4
	LAN	RJ-45 x 2	RJ-45 x 2
	Serial port	COM x 2	COM x 2
	Audio	Audio Jack x 3	Audio Jack x 3
	KB/MS	1	1
Expansion	PCIe	PCI-Express [x16] x 1, PCI-Express [x4] x 1, PCI-Express [x1] x 2	PCI-Express[x16] x 1, PCI-Express [x4] x 1
	Mini PCI	—	1 (optional)
Indicator	Front	HDD x 1, PWR x 1	HDD x 1, PWR x 1
Power Requirement		AC-In 275W	AC-In 275W
Power Consumption		Intel® Core™ i7-860, TDP 95W	Intel® Core™ i7-860, TDP 95W
System Cooling		Active Cooling	Passive Cooling
Mounting		Desktop	Desktop
Operating temperature		32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Anti-Vibration		0.5 g rms/ 5~500 Hz/ Operation	0.5 g rms/ 5~500 Hz/ Operation
Anti-Shock		15 G with 11 m/sec, Operation	15 G with 11 m/sec, Operation
MTBF		55,000	55,000
Certification	EMC	CE/FCC	CE/FCC
Dimension (W x H x D)		14.17" x 3.9" x 11.8" (360mm x 100mm x 300mm)	14.17" x 3.47" x 10.04" (360mm x 88mm x 255mm)
Gross Weight		14.3 lb (6.5 kg)	13.42 lb (6.1 kg)
Note		—	—

Note: All specifications are subject to change without notice.

System Level Products

Advanced System Controllers

Model		AIS-Q450	AIS-Q452	AIS-Q454
Applications		Manufacture Automation, Digital Signage, X-Ray Machine	Manufacture Automation, Auto Optical Inspection, Digital Signage, X-Ray Machine	Manufacture Automation, Auto Optical Inspection, Digital Signage, X-Ray Machine
CPU		Intel® Core™ 2 Duo/Quad LGA 775, max. TDP 95W	Intel® Core™ 2 Duo/Quad LGA 775, max. TDP 95W	Intel® Core™ 2 Duo/Quad LGA 775, max. TDP 95W
Chipset		Intel® Q45 + Intel® ICH10DO	Intel® Q45 + Intel® ICH10DO	Intel® Q45 + Intel® ICH10DO
System Memory		Up to 4 GB (DDR3 800/1066 MHz, DIMM x 2)	Up to 4 GB (DDR3 800/1066 MHz, DIMM x 2)	Up to 4 GB (DDR3 800/1066 MHz, DIMM x 2)
Display Interface	VGA	1	1	1
	DVI	1	1	1
Storage Device	HDD	3.5" HDD x 1	3.5" HDD x 1	3.5" HDD x 2
Network	LAN	10/100/1000Base-TX x 2	10/100/1000Base-TX x 2	10/100/1000Base-TX x 2
Front I/O	USB Host	USB2.0 x 2	USB2.0 x 2	USB2.0 x 2
Rear I/O	USB Host	USB2.0 x 4	USB2.0 x 4	USB2.0 x 4
	LAN	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2
	Serial Port	COM x 2	COM x 2	COM x 2
	Audio	Audio Jack x 3	Audio Jack x 3	Audio Jack x 3
	KB/MS	1	1	1
Expansion	PCIe	—	PCI-Express[x16] x 1	PCI-Express[x16] x 1, PCI-Express [x4] x 1, PCI x 2
	PCI	—	1	2
Indicator	Front	HDD x 1, PWR x 1	HDD x 1, PWR x 1	HDD x 1, PWR x 1
Power Requirement		AC-In 220W	AC-In 275W	AC-In 275W
Power Consumption		Intel® Q9400, TDP 95W	Intel® Q9400, TDP 95W	Intel® Q9400, TDP 95W
System Cooling		Passive Cooling	Passive Cooling	Active Cooling
Mounting		Desktop	Desktop	Desktop
Operating temperature		32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature		-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Anti-Vibration		0.5 g rms/ 5~500 Hz/ Operation	0.5 g rms/ 5~500 Hz/ Operation	0.5 g rms/ 5~500 Hz/ Operation
Anti-Shock		15 G with 11 m/sec, Operation	15 G with 11 m/sec, Operation	15 G with 11 m/sec, Operation
MTBF		52,000	55,000	55,000
Certification	EMC	CE/FCC	CE/FCC	CE/FCC
Dimension (W x H x D)		12.21" x 2.56" x 7.87" (320mm x 65mm x 200mm)	14.17" x 3.47" x 10.04" (360mm x 88mm x 255mm)	14.17" x 3.9" x 11.8" (360mm x 100mm x 300mm)
Gross Weight		10.56 lb (4.8 kg)	13.42 lb (6.1 kg)	14.3 lb (6.5 kg)
Note		—	—	—

System Level Products

Network Platforms

Launching in Q2

Model	FWS-7800 New	FWS-7600	FWS-7200
Application	Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus	Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus	Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network access Control, Web Filter, Anti-Spam/Virus
Form Factor	1U 10 LAN Rackmount	1U 10 LAN Rackmount	1U Rackmount 6-port Network Appliance
Processor	Intel® 45 nm Quad Core™ Xeon 3400 Series LGA1156	Intel® Xeon Quad Core™ 3200 & Dual Core™ 3000 Series LGA 775	Onboard Intel® Dual-Core Atom™ D525
Chipset	Intel® 3450	Intel® 3010 + Intel® ICH7R	ICH8M
System Memory	Up to 16 GB (DDR3 ECC 1066/1333 DIMM x 4)	Up to 8 GB (DDR2 ECC 667 DIMM x 4)	240-pin Single Channel DDR3 800MHz SODIMM x 2, up to 4 GB
Ethernet	Intel® 82573L 10/100/1000Base-TX x 2	Intel® 82573L 10/100/1000Base-TX x 2	Intel® 82574L 10/100/1000Base-TX x 6
Bypass	One pair (optional 4 pairs)	One pair (optional 4 pairs)	One pair (optional 2 pairs)
Drive Bay	3.5" HDD x 1	3.5" HDD x 1	3.5 HDD x 1 or 2.5" HDD x 2
Cooling Fan	3	3	2
Front I/O Panel	Software Reset Button, Console x 1, USB2.0 x 2, Power LED x 1, Hard Disk Drive Active LED x 1, LAN x 2, LCM & Keypad, ByPass LED x 1, Status LED x 1	Software Reset Button, Console x 1, USB2.0 x 2, Power LED x 1, Hard Disk Drive Active LED x 1, LAN x 2 , LCM & Keypad, ByPass LED x 1, Status LED x 1	Power LED x 1, Hard Disk Drive Active LED x 1, Status LED x 1,Bypass LED x 1, LAN Actie/Link LED x 6, LAN Speed LED x 6, Software Programmable Button x 1, Console x 1, USB2.0 x 2, LAN x 6, LCM & Keypad
Rear I/O Panel	PCI/PCI-X/PCI-E [x1] expansion slot x 1	PCI/PCI-X/PCI-Express [x1] expansion slot x 1	PCI expansion slot x 2 Power Switch x 1
Color	Black	Blue	Black
Power Requirement	1U ATX 300W	1U ATX 300W	—
Storage Humidity	10~80%, non-condensing	10 ~ 80%, non-condensing	10 ~ 80%, non condensing
Vibration	0.5 g rms/ 5 ~ 500Hz/ operation (3.5" HDD) 1.5 g rms/ 5 ~ 500Hz/ non-operation	0.5 g rms/ 5 ~ 500Hz/ operation (3.5" HDD) 1.5 g rms/ 5 ~ 500Hz/ non-operation	0.5 g rms/ 5 ~500Hz/ operation (3.5" HDD) 1.5 g rms/ 5 ~500Hz/ non-operation
Shock	10 G Peak acceleration (11 m sec. duration), operation 20 G Peak acceleration (11 m sec. duration), non-operation	10 G Peak acceleration (11 m sec. duration), operation; 20 G Peak acceleration (11 m sec. duration), non-operation	10 G Peak acceleration (11 m sec. duration), operation 20 G Peak acceleration (11 m sec. duration), non-operation
Certification	CE/FCC Class A, UL	CE/FCC Class A, UL	CE/FCC CLASS A, UL
Dimension (W x H x D)	16.9" x 18.5" x 1.7" (430mm x 470mm x 44mm)	16.9" x 19.69" x 1.7" (430mm x 500mm x 44mm)	—
Gross Weight	16.5 lb (7.5 kg)	16.5 lb (7.5 kg)	—
LAN Module	TF-PER-C31L-A10-01, Fiber x 2 + Cooper x 2 TF-PER-C31L-A10-02, Fiber x 2 TF-PER-C33L-A10-01, Cooper x 4 TF-PER-C35L-A10-00, 10G Fiber LAN x 2	TF-PER-C31L-A10-01, Fiber x 2 + Cooper x 2 TF-PER-C31L-A10-02, Fiber x 2 TF-PER-C33L-A10-01, Cooper x 4 TF-PER-C35L-A10-00, 10G Fiber LAN x 2	—
Swappable HDD Tray	—	—	—

Note: All specifications are subject to change without notice.

System Level Products

Network Platforms

Launching in Q2

Model	FWS-7160 (FWS-816B)	FWS-7300	FWS-2200
Application	Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus	Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus	Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network access Control, Web Filter, Anti-Spam/Virus
Form Factor	1U 8 LAN Rackmount	1U 8 LAN Rackmount	Desktop 6-port Network Appliance
Processor	Intel® Core™ 2 Duo/ Pentium® 4	Intel® Pentium® M/ Celeron® M	Onboard Intel® Dual-Core Atom™ D525 processo
Chipset	Intel® 945G + Intel® ICH7R	Intel® 910GMLE + Intel® ICH6M	ICH8M
System Memory	Up to 4 GB (DDR2 533/667 DIMM x 2)	Up to 2 GB (DDR2 400 SODIMM x 2)	240-pin Single Channel DDR3 800MHz SODIMM slot x 2, up to 4 GB
Ethernet	Intel® 82573L 10/100Base-TX x 2 & Intel® 82541 10/100/1000Base-TX x 6 onboard	Intel® 82574L 10/100/1000Base-TX x 2 & Intel® 82541 10/100/1000Base-TX x 4 onboard	Intel® 82574L 10/100/1000Base-TX x 6 onboard
Bypass	One pair	One pair	One pair (optional 2 pairs)
Drive Bay	3.5" HDD x 1	3.5" HDD x 1	2.5" HDD x 1
Cooling Fan	3	3	2
Front I/O Panel	Software Reset Button, Console x 1, USB2.0 x 2, Power LED x 1, Hard Disk Drive Active LED x 1, LAN x 8 , LCM & Keypad, ByPass LED x 1, Status LED x 1	Software Reset Button, Console x 1, USB2.0 x 2, Power LED x 1, Hard Disk Drive Active LED x 1, LAN x 6 , LCM & Keypad,ByPass LED x 1, Status LED x 1	Power LED x 1, Hard Disk Drive Active LED x 1, Status LED x 1, Bypass LED x 1, LAN Actie/Link LED x 6, LAN Speed LED x 6
Rear I/O Panel	PCI/PCI-X/PCI-Express [x1] expansion slot x 1	PCI expansion slot x 2	USB x 2, LAN x 6 DB-9 connector x1, Software Programmable Switch x 1
Color	Blue	Blue	Black
Power Requirement	1U ATX 250W	1U ATX 150W	12V DC power adapter
Storage Humidity	10 ~ 80%, non-condensing	10 ~ 80%, non-condensing	10 ~ 80%, non condensing
Vibration	0.5 g rms/ 5 ~ 500Hz/ operation (3.5" HDD) 1.5 g rms/ 5 ~ 500Hz/ non-operation	0.5 g rms/ 5 ~ 500Hz/ operation (3.5" HDD) 1.5 g rms/ 5 ~ 500Hz/ non-operation	0.5 g rms/ 5 ~500Hz/ operation (2.5" HDD) 1.5 g rms/ 5 ~500Hz/ non-operation
Shock	10 G Peak acceleration (11 m sec. duration), operation; 20 G Peak acceleration (11 m sec. duration), non-operation	10 G Peak acceleration (11 m sec. duration), operation; 20 G Peak acceleration (11 m sec. duration), non-operation	10 G Peak acceleration (11 m sec. duration), operation 20 G Peak acceleration (11 m sec. duration), non-operation
Certification	CE/FCC Class A, UL	CE/FCC Class A, UL	CE/FCC CLASS A, UL
Dimension (W x H x D)	16.9" x 15" x 1.7" (430mm x 380mm x 44mm)	16.9" x 15" x 1.7" (430mm x 380mm x 44mm)	—
Gross Weight	16.5 lb (7.5 kg)	16.5 lb (7.5 kg)	—
LAN Module	—	—	—
Swappable HDD Tray	—	—	—

Network Platforms

Model	FWS-2300	FWS-2150
Application	Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus	Firewall, IDP/IPS, Load Balancing, Bandwidth ManagerNetwork Access Control, Web Filter, Anti-Spam/Virus
Form Factor	Desktop 4 LAN	Desktop 5 LAN
Processor	Intel® Pentium® M 1.8 GHz (BGA/Socket)	VIA Eden™/ C7™, up to 2.0 GHz
Chipset	Intel® 910GMLE + Intel® ICH6M	VIA CN700 + 8237R+
Memory	Up to 2 GB (DDR2 400/533 SODIMM x 2)	Up to 1 GB (DDR2 400/533 DIMM x 1)
Ethernet	Intel® 82541 10/100/1000Base-TX x 4 onboard	Realtek 8100C 10/100Base-TX x 5
Bypass	One pair	One pair
Drive Bay	2.5" HDD x 1	2.5" HDD x 1
Cooling Fan	1 (optional)	1 (optional)
Front I/O Panel	Power LED x 1, Hard Disk Drive Active LED x 1 Status LED x 1, Bypass LED x1, LAN Active/Link LED x 4 LAN Speed LED x 4	Power LED x1, Hard Disk Drive Active LED x 1, Status LED x1, Bypass LED x 1, LAN Active/Link LED x 5, LAN Speed LED x 5
Rear I/O Panel	USB x 2 LAN x 4 DB-9 connector x 1 Software Reset Switch x 1 Power switch x 1	USB x 2 LAN x 5 DB-9 connector x 1 Software Reset Switch x 1
Color	Black	Blue
Power Requirement	96W AC/DC power adapter	65W AC/DC power adapter
Storage Humidity	10~80%, non-condensing	10 ~ 80%, non-condensing
Vibration	0.5 g rms/ 5 ~500Hz /operation (2.5" HDD) 1.5 g rms/ 5 ~500Hz/ non-operation	0.5 g rms/ 5 ~ 500Hz/ operation (2.5" HDD) 1.5 g rms/ 5 ~ 500Hz/ non-operation
Shock	10 G Peak acceleration (11 m sec. duration), operation 20 G Peak acceleration (11 m sec. duration), non-operation	10 G Peak acceleration (11 m sec. duration), operation; 20 G Peak acceleration (11 m sec. duration), non-operation
Certification	CE/FCC Class A, UL	CE/FCC Class B, UL
Dimension (W x H x D)	11.8" x 7.9" x 1.7" (300mm x 200mm x 44mm)	7" x 9.8" x 1.7" (178mm x 250mm x 44mm)
Gross Weight	5.5 lb (2.5 kg)	4.4 lb (2.0 kg)
LAN Module	—	—
Swappable HDD Tray	—	—

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Note: All specifications are subject to change without notice.

System Level Products

Industrial Chassis — Rackmount

Model		ARC-645	ARC-645M	ARC-640
Application		Factory Automation, Industrial Automation, Network Security, DVR/ Surveillance, Storage/ SAN/ NAS, Gaming, Transportation/ ITS	Factory Automation, Industrial Automation, Network Security, DVR/ Surveillance, Application Server,	Factory Automation, Industrial Automation, Network Security, Gaming, DVR/ Surveillance, Application Server,
Construction		1.2mm SECC Zinc-coated Steel	1.2mm SECC Zinc-coated Steel	Heavy-duty steel
Mounting		Rackmount 4U	Rackmount 4U	Rackmount 4U
Drive Bay	Front Accessible	3.5" x 1, 5.25" Removable HDD x 3 Drive Bay	3.5" x 1, 5.25" HDD x 3 Drive Bay	3.5" x 1, 5.25" HDD x 3 Drive Bay
	Internal	3.5" HDD x 2	3.5" HDD x 2	3.5" HDD x 1
Cooling Fan		12 cm Ball Bearing Fan with Removable Filter x 1	12 cm Ball Bearing Fan with Removable Filter x 1, 8 cm Fan x 1	12 cm Ball Bearing Fan with Removable Filter
Front I/O Panel		Power On/Off switch x 1 Reset button x 1 Power On LED x 1 Hard Disk Drive active LED x 1 LAN LED x 1 USB x 2 PS/2 keyboard connector x 1	Power On/Off switch x 1 Reset button x 1 Power On LED x 1 Hard Disk Drive active LED x 1 LAN Active LED x 1 USB x 2 PS/2 Keyboard x 1	Power On/Off switch x 1 Reset button x 1 Power On LED x 1 Hard Disk Drive active LED x 1 Keyboard lock button x 1 with LED USB x 2 PS/2 keyboard connector x 1
Rear I/O Panel		AT keyboard connector x 1 Reserved cut-out for DB-25 connector x 1	AT keyboard connector x 1 Reserved cut-out for DB-25 connector x 1	AT keyboard connector x 1 Reserved cut-out for DB-25 connector x 1
Color		Black	Black	White (Pantone 413C)
Power Requirement		Supports ATX PS/2 Power Supply up to 400W	Supports ATX PS/2 Power Supply up to 400W	Supports ATX PS/2 Power Supply up to 400W
Storage Humidity		10 ~ 90% @40°C, non-condensing	10 ~ 90% @40°C, non-condensing	10 ~ 90% @40°C, non-condensing
Vibration		0.5 g rms/ 5 ~ 500Hz/ operation	0.5 g rms/ 5 ~ 500Hz/ operation	0.5 g rms/ 5 ~ 500Hz/ operation
Shock		15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non-operation	15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non-operation	15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non-operation
Certification		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		19" x 7" x 20.8" (482mm x 177mm x 528mm)	19" x 7" x 20.8" (482mm x 177mm x 528mm)	19" x 7" x 17.8" (483mm x 177mm x 452mm)
Gross Weight		26.4 lb (12 kg)	30.8 lb (14 kg)	32 lb (14.5 kg)

Industrial Chassis — Rackmount

Model		ARC-640M	ARC-625
Application		Factory Automation Industrial Automation Networking Security Gaming DVR/ Surveillance Application Server	Factory Automation, Industrial Automation, Network Security, Telecom, Application Server
Construction		Heavy-duty steel	1.2mm SECC Zinc-coated Steel
Mounting		Rackmount 4U	Rackmount 2U
Drive Bay	Front Accessible	5.25" CD-ROM or Removable HDD x 3	3.5" x 1, 5.25" HDD x 1 Drive Bay
	Internal	3.5" HDD x 1	3.5" HDD x 1
Cooling Fan		12cm Ball Bearing Fan with Removable Filter x 1	8 cm Ball Bearing Fan with Removable Filter
Front I/O Panel		Power On/Off switch x 1 Keyboard Lock Switch x 1 Reset button x 1 Power On LED x 1 Hard Disk Drive active LED x 1 USB x 1 PS/2 keyboard connector x 1	Power On/Off switch x 1 Reset button x 1 Power On LED x 1 Hard Disk Drive active LED x 1
Rear I/O Panel		AT keyboard connector x 1 Reserved cut-out for DB-25 connector x 1	—
Color		White (Pantone 413C)	Black
Power Requirement		Supports PS/2 power supply up to 400W	Supports ATX PS/2 Power Supply up to 400W
Storage Humidity		10 ~ 90% @40°C, non-condensing	10 ~ 90% @40°C, non-condensing
Vibration		0.5g/ 5 ~ 500Hz/ operation (2.5"" Hard Disk Drive) 1.5g/ 5 ~ 500Hz/ no operation	0.5 g rms/ 5 ~ 500Hz/ operation
Shock		15g peak acceleration (11 m sec. duration), operation 30g peak acceleration (11 m sec. duration), non operation	15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non-operation
Certification		CE/FCC Class A	CE/FCC Class A
Dimension (W x H x D)		19" x 7" x 19" (483mm x 177mm x 482mm)	19" x 3.5" x 20.8" (483mm x 88mm x 528mm)
Gross Weight		37.4 lb (17 kg)	26.4 lb (12 kg)

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Note: All specifications are subject to change without notice.

System Level Products

Industrial Chassis — Wallmount

Model		AMC-280B	AMC-280M	AMC-262
Application		Industry Automation, Factory Automation, Control Box, Transportation, Banking machine, ITS ,HMI, Workstation	Industry Automation, Factory Automation, Control Box, Transportation, Banking machine, ITS ,HMI, Workstation	Industry Automation, Factory Automation, Control Box, Transportation, Banking machine, ITS ,HMI, Workstation
Construction		Heavy-duty steel	Heavy-duty steel	Heavy-duty steel
Mounting		Wallmount	Wallmount	Wallmount
Drive Bay	Front Accessible	3.5" FDD x 1, 5.25" CD-ROM x 2 or Removable HDD x 2	3.5" FDD x 1 (second one will be optional) or 5.25" CD-ROM x 1 or Removable HDD x 1	3.5" FDD x 1, 5.25" CD-ROM x 1
	Internal	3.5" HDD x 1	Up to three 3.5" HDD (optional)	3.5" HDD x 2
Cooling Fan		12 cm Ball Bearing Fan with Removable Filter x 1	12 cm Ball Bearing Fan with Removable Filter x 1	8 cm Ball Bearing Fan with Removable Filter x 1
Front I/O Panel		Power On/Off switch with LED x 1 Reset button x 1 Power On LED x 1 Hard Disk Drive active LED x 1 PS/2 keyboard connector x 1	Power On/Off switch with LED x 1 Reset button x 1 Power On LED x 1 Hard Disk Drive active LED x 1 PS/2 keyboard connector x 1 USB x 2	Power On/Off switch with LED x 1 Reset button x 1 Power On LED x 1 Hard Disk Drive active LED x 1 PS/2 Keyboard Connector x 1 USB x 2
Rear I/O Panel		AT keyboard connector x 1 Reserved cut-out for DB-25 connector x 1, Reserved cut-out for DB-9 connector x 1	I/O with bracket depended on Motherboard	Reserved cut-out for DB-25 connector x 1; Reserved cut-out for DB-9 connector x 1
Color		White (Pantone 413C)	White (Pantone 413C)	Black
Power Requirement		Supports ATX PS/2 Power Supply up to 400W	Supports ATX PS/2 Power Supply up to 400W	Standard ATX PS/2 Power Supply
Storage Humidity		10 ~ 80% @40°C, non-condensing	10 ~ 80% @40°C, non-condensing	10 ~ 80% @40°C, non-condensing
Vibration		0.5 g rms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive), 1.5 g rms/ 5 ~ 500Hz/ no operation	0.5 g rms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive), 1.5 g rms/ 5 ~ 500Hz/ no operation	0.5 g rms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive), 1.5 g rms/ 5 ~ 500Hz/ no operation
Shock		15 G peak acceleration (11 m sec. duration), operation; 30 G peak acceleration (11 m sec. duration), non-operation	15 G peak acceleration (11 m sec. duration), operation; 30 G peak acceleration (11 m sec. duration), non-operation	15 G peak acceleration (11 m sec. duration), operation; 30 G peak acceleration (11 m sec. duration), non-operation
Certification		CE/FCC Class A	CE/FCC Class A	CE/ FCC Class A
Dimension (W x H x D)		6.8" x 13" x 16.1" (172.7mm x 330mm x 406mm)	7.7" x 13.1" x 15.9" (196mm x 330mm x 405mm)	6.9" x 10" x 16.1" (175mm x 255mm x 408mm)
Gross Weight		22 lb (10 kg)	22 lb (10 kg)	13.9 lb (6.3 kg)

System Level Products

Industrial Chassis — Wallmount

Model		AEC-206	AEC-204	AMC-263
Application		Industry Automation, Factory Automation, Control Box, Transportation, Banking Machine, ITS, HMI, Workstation	Industry Automation Factory Automation Control Box Transportation Banking Machine ITS, HMI, Workstation	Factory Automation, Control Box, Transportation, Banking Machine, ITS, HMI, Workstation,
Construction		Heavy-duty steel	Heavy-duty steel	Heavy-duty steel
Mounting		Wallmount	Wallmount	Wallmount
Drive Bay	Front Accessible	3.5" FDD x 1, 5.25" CD-ROM x 1	Slim CD-ROM x 1	3.5" FDD x 1
	Internal	3.5" CD-ROM x 2	3.5" HDD or 2.5" HDD x 1	3.5" HDD x 1
Cooling Fan		12 cm Ball Bearing Fan with Removable Filter x 1	8 cm Ball Bearing Fan with Removable Filter x 1	9.2 cm Ball Bearing Fan with Removable Filter x 1
Front I/O Panel		Power On/Off switch with LED x 1, Reset button x 1 Hard Disk Drive active LED x 1 USB x 2	Power On/Off switch x 1	Power On/Off Switch x 1 Reset button x 1 Hard Disk Drive Active LED x 1 USB x 2
Rear I/O Panel		COM port x 2 Parallel port x 1 Reserved cut-out for LVDS x 1	COM port x 1 Parallel port x 1 Reserved cut-out for LVDS x 1	Reserved cut-out for DB-25 connector x 1; Reserved cut-out for DB-9 connector x 1; USB x 2 (Can use USB cable)
Color		Black	White (Pantone 413C)	White (Pantone 413C), Black
Power Requirement		1U 150W/200W/250W AT/ATX Power Supply	1U ATX power supply, up to 180W	1U ATX Power Supply up to 300W
Storage Humidity		5 ~ 95% @40°C, non-condensing	10 ~ 80% @40°C, non-condensing	10 ~ 80% @ 40°C, non-condensing
Vibration		1 g rms/ 5 ~ 500Hz/ random operation	1g/ 5 ~ 500Hz/ random operation	0.5 g rms/ 5 ~ 500Hz/ operation 1.5 g rms/ 5 ~ 500Hz/ non-operation
Shock		10 G peak acceleration (11 m sec. duration), operation; 20 G peak acceleration (11 m sec. duration), non-operation	15g peak acceleration (11 msec. Duration)	10 G peak acceleration (11 m sec. duration), operation; 20 G peak acceleration (11 m sec. duration), non-operation
Certification		CE/FCC Class A	CE/FCC Class A	CE, FCC Class A
Dimension (W x H x D)		7.7" x 8.5" x 15.5" (195.9mm x 216.2mm x 395mm)	6.3" x 8.1" x 9.7" (161mm x 207mm x 247mm)	6.54" x 7.09" x 15.47" (166mm x 180mm x 393mm)
Gross Weight		20 lb (9.2 kg)	13.9 lb (6.3 kg)	15.4 lb (7.0 kg)

Note: All specifications are subject to change without notice.

Memo

Memo